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**G** Stories

June. 1928 Vol. 3. No. 3

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H. GERMSBACK, Pres.; S. GERNSBACK, Trees.; C. E. ROSENFELT, Sec'v

UNINHAR OF SCIENCE & INVENTION, RADIO NEWS, Radio Listeners' Guide, French Humor Owners of Broadcast Station WRNY

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#### In Our Next Issue: VANDALS FROM THE MOON, by Marius,

The steamship imitates the fish in its manner of locomotion, the airplane imitates the bird in its locomotion through the air. But no engineer seems to have ever thought of duplicating the snake mo-tion for propelling heavy bodies. Yet it is perfectly bon to properly and the autor of this story may prove plausible, and the autor of this story may prove to be a prophet some day. It is certainly an inter-esting and original idea and furnishes excellent material in a unique interplanetary tale, this time dealing with the neucember bridge but dealing with the moon people who visit our Planet. THE INVISIBLE MAN, by H. G. Wells. (A Serial in Two Parts) Part II. In the concluding chapters of this story, the harassed and harassing invisible man finally reaches an old scientist friend of his, to whom he relates his experiments, his unexpected success and his subsequent experiences. But you don't need to be a dyed-in-the-wool scienbut you don't need to be a dyea in-the-wool scien-tist to become throroughly absorbed in this detail or in the story of their subsequent experiences. You will enjoy it no matter how much science you know or don't know.

BARON MUNCHHAUSEN'S SCIENTIFIC ADVENTURES, by Hugo Gernsback. (The three parts in this issue conclude this series.) What will our descendants do ages from now, when their air supply dwindles down to nothing? According to our very remarkable friend, the Baron, Coroling to our very remarkagolved this problem by the Martians have already and a strain with which they generate their own air. The Baron tells us also, how the Martian canals were built, and, less we think them always arsiss and scientific, we are permitted a glimpse into their lighter mo-ments and learn something of the kinds of amusement in which they indulge

JUST AROUND THE CORNER, by Raymond Knight. We offer this interesting playlet, which in a sense is based on science, as a novelty to our readers. It furnishes excellent material for an amateur, inexpensive production,

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VOLUME 3



JUNE, No.	

HUGO GERNSBACK. Editor DR. T. O'CONOR SLOANE, Ph.D., Associate Editor WILLBUR C. WHITEHEAD, Literary Editor C. A. BRANDT, Literary Editor

Editorial and General Offices: 230 Fifth Avenue, New York, N. Y.

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Extravagant Fiction Today -. . - Cold Fact Tomorrow

### OUR AMAZING MINDS

By HUGO GERNSBACK



NE of the curious vagaries of the human mind is that we would much rather believe the things that are not facts than those that are facts and have long been proven to be such. It is the old

This Ilustrates a tendency which holds true throughout our lives and becomes more marked as we grow older. Many instances of such vagaries could be cited.

Thus it will come as a surprise to many intelligent people to hear that a majority of individuals believe that hypnotism is to be classed with witchery and other occult pastimes, such as spiritualism. Thousands of people every year ask the question whether we believe in hypotism and whether we believe that there is such a thing.

The well-read reader will know that hypnotism is an exact science and that it not only exists, but that it is used daily by science and that it not only exists, but that it is used daily by a great many doctors. Quite a number of people do not know, however, that animals can be hypnotized as thoroughly as human beings. Thus, a hen may be readily hypnotized by drawing a chalk-line on a table and placing the hen on its back with her head pushed down on the table, so that the chalkline will run between its eyes in such a position that the white line acts as a hypotic to the hen and she can no longer turn around. This is true hypotism. A similar experiment can be performed with a rabbit, usually with as much success. Hypnotism is even used to produce artificial sleep in patients during operations. We refer those who might still be skeptical on the subject, to any good book on hypnotism.

The very same people, though, who denounce hypnotism as one of the black arts, glibly go to a Yogi to have their future read and believe implicitly what this faker tells them, or the reast and vertexe improving what this faker tells them, of the same innocents will be sold on the idea that astrology is an exact science, just as astronomy is. Yet most educated people know that astrology is a fake, pure and simple, and has only one (?) good feature—it makes money for those who practice it.

SCIENCE AND INVENTION had a standing prize of \$2,000.00, which it promised to pay any astrologist who could predict three future events exactly as to time and place. Although the prize was offered for years, it was never collected. The list of examples might be extended indefinitely to give

instances of this kind.

I am making this point mainly because I constantly hear, from those who are rather vehement in their assertion, that we are always sponsoring the impossible and that we should stick more to facts. Or, if we cannot do that, then we should at least frankly admit that our stories *are* fiction and let it go at that. But the great trouble is that nowadays, one does not know what is fiction and what is not. Fiction and fact are so interwoven that it is frequently impossible to separate one from the other; and if you could separate the two, the separation would be meaningless on account of the time element. No would probably have become fact.

An interesting sidelight on this may be cited in the follow-ing: In the year 1911, in my story, Ralph 124C 41+, I featured a purely fictional instrument which I termed "The Hypnobio-scope." This instrument was supposed to impart knowledge Scope. This instrument was supposed to impart knowledge and education to the sleeping mind. I set forth quite an elaborate theory at that time, as to why it should be simple to educate the sleeping mind. While the mind sleeps, it is not being distracted by outside influences and it would, therefore. I reasoned-be more receptive than at any other time. Thie was pure fiction and evidently I did not take much stock in it myself, because I never actually tried it. Much to my amazemyself, because I never actually tried it. Much to my amaze-ment, however, Chief Radio Man Finney, of the United States Navy, who read the story, tried it in 1922, with the result that today in the Pensacola, Florida, Naval Station, students are taught code while they sleep. You may see the students stretched on benches, with helmics over their heads, sleeping soundly, while an operator is sending them code all night long. The sound is conveyed to them through telephone head receivers students found it impossible to learn the telegraphic code during their waking hours-the ONLY way to teach them the code was while they slept. A most amazing fact is that as soon as the operator sends an S.O.S., all the sleepers wake up instantly.

The reason, of course, is that the mind itself never sleeps. That is by no means all. Now comes a statement which sounds like pure fiction. Recently, another investigator in the East began working along the same lines, except that he used a phonograph with a clock attachment. For four or five hours during the night, a phonograph record is made to talk into the ear of the subject, repeating it dozens of times-not education, but suggestion. These suggestions are of a medical nature and work on the subconscious mind. It has thus been possible, in two or three weeks, to cure constipation cases of long standing, simply by mind stimulation—by the suggestions made by the phonograph while the subject slept. Other minor dis-

by the phonograph while the subject slept. Other minor dis-eases and mental troubles have thus been specified eliminated. This again shows the impressive power of the mind over matter, and while the principle is not new—Coué having used it in a different manner—still, it is most interesting because here we have to do with the sleeping unconscious and sub-conscious mind. There is a possibility that a method of this kind will have a great influence on our future lives, when the new art is better understood.

Mr. Hugo Gernsback speaks every Tuesday at 9.30 P. M. from WRNY (326 meters) and 2XAL (30.90 meters) on various scientific subjects,

## The INVISIBLE MAN By H. G. Wells

Author of: "The War of the Worlds," "The Time Machine," etc.

#### CHAPTER I.

#### The Strange Man's Arrival



HE stranger came early in February, one wintry day, through a biting wind and a driving snow, the last snowfall of the year, over the down, walking from Bramblehurst Railway Station, and carrying a little black

portmanteau in his thickly-gloved hand. He was wrapped up from head to foot, and the brim of his soit felt hat hid every inch of his face save the shiny tip of his nose; the snow had piled itself against his shoulders and chest, and added a white crest to the burden he carried. He staggered into the "Coach and Horses" more dead than alive, and flung his portmanteau down. "A fire," he cried, "in the name of human charity! A room and a fire!" He stamped and shock the snow from off himself in the bar, and followed Mrs. Hall into her guest parlor to strike his bargian. And with that much introduction, that and a couple of sovereigns flung upon the table, he took up his quarters in the inu.

Mrs. Hall lit the fire and left him there while she went to prepare him a meal with her own hands. A guest to stop at Jping in the winter time was an unheard-of piece of luck, let alone a guest who was no "haggler," and she was resolved to show herself worthy of her good fortune.

As soon as the bacon was well-under way, and Millie, her lymphatic aid, had been brisked up a bit by a few deftly chosen expressions of contempt, she carried the cloth, plates, and glasses into the parlor, and began to

lay them with the utmost *cclat.* Although the fire was burning up briskly, she was surprised to see that her visitor still wore his hat and coat, and stood with his back to her and staring out of the window at the falling snow in the yard.

His gloved hands were clasped behind him, and he seemed to be lost in

thought. She noticed that the melted snow that still sprinkled his shoulders dripped upon her carpet.

"Can I take your hat and coat, sir," she said, "and give them a good dry in the kitchen?"

"No," he said, without turning.

She was not sure she had heard him, and was about to repeat her question.

He turned his head and looked at her over his shoulder. "I prefer to keep them on," he said with emphasis; and she noticed that he wore big blue spectacles with side-lights, and had a bushy side whisker over his coat collar that completely hid his entire face. "Very well, sir," she said. As you like. In a bit the room will be warmer."

He made no answer, and turned his face away from her again, and Mrs. Hall, feeling that her conversational advances were ill-timed, laid the rest of the table things in a quick staccato manner, and whisked out of the room. When she returned he was still standing there like a man of stone, his back hunched, his collar turned up, his dripping hat-brim turned down, hiding his face and ears completely. She put down, the eggs and bacon with considerable emphasis, and called rather than said to him :

"Your lunch is served, sir."

"Thank you," he said at the same time, and did not stir until she was closing the door. Then he swung round and approached the table with a certain eagerness.

As she went behind the bar to the kitchen she heard a sound repeated at regular intervals. Chirk, chirk, chirk, it went, the sound of a spoon being whisked rapidly round a basin. "That girl" she said. "There! I clean forgot it. It's her being so long!" And while she herself finished mixing the mustard, she gave Mille a few verbal stabs for her excessive slowness. She had cooked the ham and eggs, laid the table, and done everything, while Millie (help, indeed) had only succeeded in delaying the mustard. And him a new guest, and wanning to stay! Then she filled the mustard-pot, and, putting it with some stateliness upon a gold and black tea-tray, carried it into the parlor.

She rapped and entered promptly. As she did so her

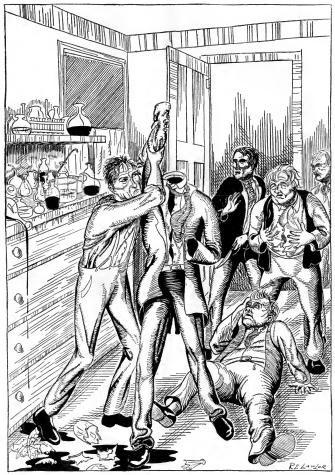
**THERE** have been many stories written dealing with invisibility and invisible people, but "The Invisible Man," by this famous author and father of scientificion, is undoubtedly the best and by far the most scientific of them all. While much discussion was created by certain of Mr. Well's stories which wave published in this magazine, the citier predicts that "The Invisible Man" will be proclaimed by all our readers as a cientifiction story, plus. Start the first instalment with this issue. visitor moved quickly, so that she got but a glimpse of a white object disappearing behind the table. It would seem he was picking something from the floor. She rapped down the mustard-pot on the table, and then she noticed the overcoat and hat had been taken off and put over a chair in front of the fre. A pair

of wet boots threatened rust to her steel fender. She went to these things resolutely. "I suppose I may have them to dry now?" she said, in a voice that brooked no denial.

"Leave the hat," said her visitor in a muffled voice, and turning, she saw he had raised his head and was looking at her.

For a moment she stood gazing at him, too surprised to speak,

He held a white cloth-it was a serviette he had brought with him-over the lower part of the face, so



"You're a darned rum customer, mister," said Mr. Jaffers. Bnt 'ed or no 'ed, the warrant says 'body,' and duty's duty-" "What the devil's this?" came iu a tone of angry expostalation from above the collar of the figure.

that his mouth and jaws were completely hidden, and that was the reason of his mdfled voice. But it was not that which startled Mrs. Hall. It was the fact that all the forehead above his blue glasses was covered by a white bandge, and that another covered his ears, leaving not a scrap of his face exposed excepting only his pink, peaked nose. It was bright pink, and shining, just as it had been at first. He wore a dark brown velvet jacket, with a high, black, linen-lined collar turned up about his neck. The thick black hair, escaping as it could below and between the cross bandages, projected in curious tails and horns, giving shim the strangest appearance conceivable. This muffled and bandaged head was so unlike what she had anticipated that for a moment she was rigid.

He did not remove the serviette, but remained holding it, as she saw now, with a brown gloved hand, and regarding her with his inscrutable blank glasses. "Leave the hat," he said, speaking indistinctly through the white cloth.

Her nerves began to recover from the shock they had received. She placed the hat on the chair again by the fire. "I didn't know, sir," she began, "that—" And she stopped, embarrassed.

"Thank you," he said dryly, glancing from her to the door, and then at her again.

"I'll have them nicely dried, sir, at once," she said, and carried his clothes out of the room. She glanced at his white-swathed head and blank goggles again as she was going out of the door; but his napkin was still in front of his face. She shivered a little as she closed the door behind her, and her face was eloquent of her surprise and perplexity. "I never!" she whispered. "There!" She went quite softly to the kitchen, and was too preoccupied to ask Millie what she was messing about with wore, when she got there.

THE visitor sat and listened to her retreating feet. The glanced inquiringly at the window before he removed his serviette, and resumed his meal. He took a mouthful, glanced suspiciously at the window, took another mouthful; then rose and, taking the serviette in his hand, walked across the room and pulled the blind down to the top of the white muslin that obscured the lower panes. This plunged the room in twilight. He returned with an easier air to the table and his meal.

"The poor soul's had an accident, or an op'ration or somethin'," said Mrs. Hall. "What a turn them bandages did give me to be sure!"

She put on some more coal, unfolded the clotheshorse, and extended the traveler's coat upon this. "And they goggles! Why, he looked more like a divin' 'elmet than a human man!" She hung his muffler on a corner of the horse. "And holding that handkerchief over his mouth all the time. Talkin' through it!... Perhaps his mouth was hurt too-maybe."

She turned round, as one who suddenly remembers. "Bless my soul alive!" she said, going off at a tangent, "ain't you done them taters yet, Millie?"

When Mrs. Hall went to clear away the stranger's lunch her idea that his mouth must also have been cut or disfigured in the accident she supposed him to have suffered was confirmed, for he was smoking a pipe, and all the time that she was in the room he never loosened the silk muffler he had wrapped round the lower part of his face to put the mouthpiece to his lips. Yet it was not forgetfulness, for she saw he glanced at the tobacco as it smoldered out. He sat in the corner with his back to the window-blind, and spoke now, having eaten and drunk and being comfortably warmed through, with less aggressive brevity than before. The reflection of the fire lent a kind of red animation to his gy spectacles they had lacked hitherto.

"I have some fuggage," he said, "at Bramblehurst Station," and he asked her how he could have it sent. He bowed his bandaged head quite politely in acknowledgment of her explanation. "To-morrow!" he said. "There is no specielr deliver?" and seemed disappointed when she answered "No." "Was she quite sure? No man with a trap who would go over?"

Mrs. Hall, nothing loath, answered his questions, and then developed a conversation. "It's a steep road by the down, sir," she said, in answer to the question about a trap; and then snatching at an opening said, "It was there a carriage was upsettled, a year ago and more. A gentleman killed, besides his coachman. Accidents, sir, happen in a moment, don't the?"

But the visitor was not to be drawn so easily. "They do," he said, through his muffler, eyeing her quietly from behind his impenetrable glasses.

"But they take long enough to get well, sir, don't they? There was my sister's son, Tom, jest cut his arm with a sythe-tumbled on it in the 'ayfield-and bless me! he was three months tied up, sir. You'd hardly believe it. It's regular give me a dread of a sythe, sir."

"I can quite understand that," said the visitor.

"We was afraid, one time, that he'd have to have an op'ration, he was that bad, sir."

The visitor laughed abruptly—a bark of a laugh that he seemed to bite and kill in his mouth. "Was he?" he said.

"He was, sir. And no laughing matter to them as had the doing for him as I had, my sister being took up with her little ones so much. There was bandages to do, sir, and bandages to undo. So that if I may make so bold as to to say it, sir——"

"Will you get me some matches?" said the visitor quite abruptly. "My pipe is out."

Mrs. Hall was pulled up suddenly. It was certainly rude of him after telling him all she had done. She gasped at him for a moment, and remembered the two sovereigns. She went for the matches.

"Thanks," he said concisely, as she put them down, and turned his shoulder upon her and stared out of the window again. Evidently he was sensitive on the topic of operations and bandages. Bhe did not "make so bold as to asy," after all. But his subbing way had irritated her, and Millie had a hot time of it that afternoon.

The visitor remained in the parlor until four o'clock, without giving the ghost of an excuse for an intrusion. For the most part he was quite still during that time: it would seem he sat in the growing darkness, smoking by the firelight—perhaps dozing.

Once or twice a curious listener might have heard

him at the coals, and for the space of five minutes he was audibly pacing the room. He seemed to be talking to himself. Then the armchair creaked as he sat down again.

#### CHAPTER II.

#### Mr. Teddy Henfrey's First Impressions

A four o'clock, when it was fairly dark, and Mrs. Hall was screwing up her courage to go in and ask her visitor if he would take some tea, Teddy Henfrey, the clock-jobber, came into the bar.

"My sakes, Mrs. Hall," said he, "but this is terrible weather for thin boots!" The snow outside was falling faster.

Mrs. Hall agreed, and then noticed he had his bag with him. "Now you're here, Mr. Teddy," said she, "I'd be glad if you'd give th' old clock in the parlor a bit of a look. "Tis going, and it strikes well and hearty, but the hour hand won't do nuthin' but point at six."

And leading the way, she went across to the parlor door and rapped and entered.

Her visitor, she saw, as she opened the door, was seated in the arm-chair before the fire, dozing, it would seem, with his bandaged head drooping on one side. The only light in the room was the red glow from the fire. Everything was ruddy, shadowy, and indistinct to her, the more so since she had just been lighting the bar lamp, and her eyes were dazzled. But for a second it seemed to her that the man she looked at had an enormous mouth wide open, a vast and incredible mouth that swallowed the whole of the lower portion of his face. It was the sensation of a moment; the whitebound head, the monstrous goggle eyes, and this huge yawn below it. Then he stirred, started up in his chair, put up his hand. She opened the door wide so that the room was lighter, and she saw him more clearly, with the muffler held to his face, just as she had seen him hold the serviette before. The shadows, she fancied, had tricked her.

"Would you mind, sir, this man a-coming to look at the clock, sir?" she said, recovering from her momentary disorder.

"Look at the clock?" he said, staring round in a drowsy manner, and speaking over his hand; and then, getting more fully awake, "Certainly."

Mrs. Hall went away to get a lamp, and he rose and stretched himself. Then came the light, and Mr. Teddy Henfrey, entering, was confronted by this bandaged person. He was, he says, "taken aback."

"Good afternoon," said the stranger, regarding him —as Mr. Henfrey says, with a vivid sense of the dark spectacles—"like a lobster."

"I hope," said Mr. Henfrey, "that it's no intrusion." "None whatever." said the stranger. "Though I

understand," he said, turning to Mrs. Hall, "that this room is really to be mine for my own private use."

"I thought, sir," said Mrs. Hall, "you'd prefer the clock----"

"Certainly," said the stranger, "certainly; but as a rule I like to be alone and undisturbed."

He turned round with his back to the fireplace, and put his hands behind his back. "And presently," he said, "when the clock-mending is over, I think I should like to have some tea. But not till the clock-mending is over."

Mrs. Hall was about to leave the room—she made ne conversational advances this time, because she did not want to be snubbed in front of Mr. Henfrey—when her visitor asked her if she had made any arrangements about his boxes at Bramblentrst. She told him she had mentioned the matter to the postman, and that the carrier could bring them over on the morrow.

"You are certain that is the earliest?" he said.

She was certain, with a marked coolness.

"I should explain," he added, "what I was really too cold and fatigued to do before, that I am an experimental investigator."

"Indeed, sir," said Mrs. Hall, much impressed.

"And my baggage contains apparatus and appliances."

"Very useful things indeed they are, sir," said Mrs. Hall.

"And I'm naturally anxious to get on with my inquiries."

"Of course, sir."

"My reason for coming to Iping," he proceeded, with a certain deliberation of manner, "was . . . a desire for solitude. I do not wish to be disturbed in my work. In addition to my work, an accident----"

"I thought as much," said Mrs. Hall to herself.

"Necessitates a certain retirement. My eyes are sometimes so weak and painful that I have to shut myseli up in the dark for hours together—lock myself up. Sometimes—now and then. Not at present, certainly. At such times the slightest disturbance, the entry of a stranger into the room, is a source of excruciating annoyance to me. . . . It is well these things should be understood."

"Certainly, sir," said Mrs. Hall. "And if I might make so bold as to ask----"

"That, I think, is all," said the stranger, with that quietly irresistible air of finality he could assume at will. Mrs. Hall reserved her question and sympathy for a better occasion.

A FTER Mrs. Hall had left the room he remained. standing in front of the fire, glaring, so Mr. Henfrey puts it, at the clock-mending. Mr. Henfrey worked with the lamp close to him, and the green shade threw a brilliant light upon his hands and upon the frame and wheels, and left the rest of the room shadowy. When he looked up colored patches swam in his eyes. Being constitutionally of a curious nature, he had removed the works-a quite unnecessary proceedingwith the idea of delaying his departure and perhaps falling into conversation with the stranger. But the stranger stood there, perfectly silent and still. So still -it got on Henfrey's nerves. He felt alone in the room and looked up, and there, gray and dim, was the bandaged head and huge, dark lenses, staring fixedly, with a mist of green spots drifting in front of them. It was so uncanny to Henfrey that for a minute they remained staring blankly at one another. Then Henfrey looked down again. Very uncomfortable position! One would like to say something. Should he remark that

the weather was very cold for this time of the year? He looked up as if to take aim with that introductory shot, "The weather----" he began.

"Why don't you finish and go?" said the rigid figure, evidently in a state of painfully suppressed rage. "All you've got to do is to fix the hour hand on its—axle. You're simply humbugging."

"Certainly, sir-one minute more. I overlooked. ..." And Mr. Henfrey finished and went.

But he went off feeling excessively annoyed. "Damn it!" said Mr. Henfrey to himself, trudging down the village through the falling snow, "a man must do a clock at times, sure-ly."

And again, "Can't a man look at you? Ugly!"

And yet again, "Seemingly not. If the police was wanting you, you couldn't be more wrapped and bandaged."

At Glesson's corner he saw Hall, who had recently married the stranger's hostess at the "Coach and Horses," and who now drove the Iping conveyance, when occasional people required it, to Sidderbridge Junction, coming towards him on his return from that place. Hall had evidently been "stopping a bit" at Sidderbridge, to judge by his driving. "'Ow do, Teddy?" he said, passing.

"You got a rum un up home !" said Teddy.

Hall very sociably pulled up. "What's that?" he asked.

"Rum-looking customer stopping at the 'Coach and Horses,' " said Teddy. "My sakes!"

And he proceeded to give Hall a vivid description of his wife's grotesque guest. "Locks a bit like a disguise, don't it? I'd like to see a man's face if I had him stopping in my place," said Henfrey. "But women are that trustful—where strangers are concerned. He's took your rooms, and he ain't even given a name, Hall."

"You don't say so," said Hall, who was a man of sluggish apprehension.

"Yes," said Teddy. "By the week. Whatever he is, you can't get rid of him under the week. And he's got a lot of luggage coming to-morrow, so he says. Let's hope it won't be stones in boxes, Hall."

He told Hall how his aunt at Hastings had been swindled by a stranger with empty portmanteaus. Altogether he left Hall vaguely suspicious. "Get up, old girl," said Hall. "I s'pose I must see 'bout this."

Teddy trudged on his way with his mind considerably relieved.

Instead of "seeing "bout it," however, Hall, on his return, was severely rated by his wife on the length of time he had spent in Sidderbridge, and his mild imquiries were answered snapsihily and in a manner not to the point. But the seed of suspicion Teddy had sown germinated in the mind of Mr. Hall in spite of these discourgements. "You wim' don't know everything," said Mr. Hall, resolved to ascertain more about the personality of his guest at the earliest possible opportunity. And after the stranger had gone to bed, which he did about half-past nine, Mr. Hall went aggressively into the parlor, and looked very hard 'at his wife's furniture, just to show that the stranger wasn't master there, and scrutinized a little contemptuously a sheet there. had left. When retiring for the night, he instructed Mrs. Hall to look very closely at the stranger's luggage when it came next day.

"You mind your own business, Hall," said Mrs. Hall, "and I'll mind mine."

She was all the more inclined to snap at Hall because the stranger was undoubtedly an unusually strange sort of stranger, and she was by no means assured about him in her own mind. In the middle of the night she woke up dreaming of huge, white heads like turnips, that came trailing after her, at the end of interminable necks, and with vast black eyes. But being a sensible woman, she subdued her terrors, and turned over and went to sleep again.

#### CHAPTER III.

#### The Thousand and One Bottles

O it was that on the 9th day of February, at the beginning of the thaw, this singular person fell O out of infinity into Iping village. Next day his luggage arrived through the slush-and very remarkable luggage it was. There were a couple of trunks, indeed, such as a rational man might have, but in addition there were a box of books-big, fat books, of which some were just in an incomprehensible handwritingand a dozen or more crates, boxes, and cases, containing objects packed in straw-glass bottles, as it seemed to Hall, tugging with a casual curiosity at the straw. The stranger, muffled in hat, coat, gloves, and wrapper, came out impatiently to meet Fearenside's cart, while Hall was having a word or so of gossip preparatory to helping bring them in. Out he came, not noticing Fearenside's dog, who was sniffing in a dilettante spirit at Hall's legs.

"Come along with those boxes," he said. "I've been waiting long enough."

And he came down the steps towards the tail of the wagon, as if to lay hands on the smaller crate.

No sconer had Fearenside's dog caught sight of him, however, than it began to bristle and growl savagely, and when he rushed down the steps it gave an undecided hop, and then sprang straight at his hand. "Whup!" crited Hall, jumping back, for he was no hero with dogs, and Fearenside howled, "Lie down!" and snatched his whip.

They saw the dog's teeth had slipped the hand, heard a kick, saw the dog execute a flanking jump and get home on the stranger's leg, and heard the rip of his trousering. Then the finer end of Fearenside's whip reached his property, and the dog, yelping with dismay, retreated under the wheels of the wagon. It was all the business of a swift half minute. No one spoke, every one shouted. The stranger glanced swiftly at his torn glove and at his leg, made as if he would stoop to the latter, then turned and rushed up the steps into the ima. They heard him go headlong across the passage and up the uncarpted stairs to his bedroom.

"You brute, you!" said Fearenside, climbing off the wagon with his whip in his hand, while the dog watched him through the wheel.

"Come here!" said Fearenside. . . . "You'd better." Hall had stood gaping. "He wuz bit," said Hall. "I'd better go an' see to en." And he trotted after the stranger. He met Mrs. Hall in the passage. "Carrier's darg." he said, "bit en."

He went straight upstairs, and the stranger's door being ajar, he pushed it open, and was entering without any ceremony, being of a naturally sympathetic turn of mind.

The blind was down and the room dim. He caught a glimpse of a most singular thing, what seemed a handless arm waving towards him, and a face of three huge, indeterminate spots on white, very like the face of a pale pansy. Then he was struck violently in the chest, hurled back, and the door slammed in his face, and locked. It was so rapid that it gave him no time to observe. A waving of indecipherable shapes, a blow and a concussion. There he stood on the dark little landing, wondering what it might be that he had seen.

After a couple of minutes he rejoined the little group that had formed outside the "Coach and Horses." There was Fearenside telling about it all over again for the second time; there was Mrs. Hall saying his dog didn't have no business to bite her guests; there was Huxter, the general dealer from over the road, interrogative; and Sandy Wadgers from the forge, judicial; besides women and children, all of them saying fatuities: "Wouldn't let en bite me, I knows"; "Tan't right have such dargs"; "Whad'e bite n' for, than?" and so forth.

Mr. Hall, staring at them from the steps and listening, found it incredible that he had seen anything so very remarkable happen upstairs. Besides, his vocabulary was altogether too limited for his impressions.

"He don't want no help, he says," he said in answer to his wife's inquiry. "We'd better be a-takin' of his luggage in."

"He ought to have it cauterized at once," said Mr. Huxter, "especially if it's at all inflamed."

"I'd shoot en, that's what I'd do," said a lady in the group.

Suddenly the dog began growling again,

"Come along," cried an angry voice in the doorway, and there stood the nuffield stranger, with his collar turned up and his hat brin bent down. "The sooner you get those things in, the better I'll be pleased." It is stated by an anonymous bystander that his trousers and gloves had been changed.

"Was you hurt, sir?" said Fearenside. "I'm rare sorry the darg-"

"Not a bit," said the stranger. "Never broke the skin. Hurry up with those things."

He then swore to himself, so Mr. Hall asserts.

D IRECTLY the first crate was, in accordance with his directions, carried into the parlor, the stranger flung himself upon it with extraordinary eagerness and began to unpack it, scattering the straw with an utter disregard of Mrs. Hall's caret, and from it he began to produce bottles—little fat bottles containing powders, small and slender bottles containing colored and white fluids, fluted blue bottles labeled *poison*, bottles with round bodies and slender necks, large green glass bottles, houres, bottles with fine corks, bottles with bunes, bottles with wooden corks, with point bottles with bunes, bottles with wooden corks. tles, salad-oil bottles—putting them in rows on the chiffonier, on the mantel, on the table under the window, round the floor, on the book-shell—everywhere. The chemist's shop in Bramblehurst could not boast half so many. Quite a sight it was. Crate after crate yielded bottles, until all six were empty and the table high with straw, ithe only things that came out of these crates besides the bottles were a number of test tubes and a carefully packed balance.

And directly the crates were unpacked the stranger went to the window and set to work, not troubling in the least about the litter of straw, the fire which had gone out, the box of books outside, nor about the trunks and other luggage that had gone upstairs.

When Mrs. Hall took his dinner in to him, he was already so absorbed in his work, pouring little drops out of the bottles into test tubes, that he did not hear her until she had swept away the bulk of the starw and put the tray on the table, with some little emphasis perhaps, seeing the state that the floor was in. Then he half turned his head, and immediately turned it away again. But she saw he had removed his glasses; they were beside him on the table, and it seemed to her that his eye sockets were extraordinarily hollow. He put on his spectacles again, and then turned and faced her. She was about to complain of the straw on the floor when he anticipated her.

"I wish you wouldn't come in without knocking," he said, in the tone of abnormal exasperation that seemed, so characteristic of him.

"I knocked, but seemingly-"

"Perhaps you did. But in my investigations---my really very urgent and necessary investigations---the slightest disturbance, the jar of a door.... I must ask you-----"

"Certainly, sir. You can turn the lock if you're like that, you know. Any time."

"A very good idea," said the stranger.

"This stror, sir. If I might make so bold as to remark ---- "

"Don't. If the straw makes trouble, put it down in the bill." And he mumbled at her—words suspiciously like curses,

He was so odd, standing there, so aggressive and explosive, bottle in one hand and test tube in the other, that Mrs. Hall was quite alarmed. But she was a resolute woman. "In which case, I should like to know, sir, what you consider——"

"A shilling—put down a shilling. Surely a shilling's enough?"

"So be it," said Mrs. Hall, taking up the tablecloth and beginning to spread it over the table. "If you're satisfied, of course-----"

He turned and sat down with his coat collar towards her.

All the afternoon he worked with the door locked, and, as Mrs. Hall testifies, for the most part in silence. But once there was a concussion and a sound of bottles ringing together, as though the table had been hit, and the smash of glass flung violently down, and then a rapid pacing athwart the room. Fearing something was the matter, she went to the door and listened, not caring to knock. "I can't go on," he was raving; "I can't go on! Three hundred thousand, four hundred thousand! The hunge multitude! Cheated! All my life it may take me!... Patience! Patience, indeed!... Fool! fool!"

There was a noise of hohanils on the bricks in the bar, and Mrs. Hall very reluctantly had to leave the rest of his soliloquy. When she returned the room was silent again, save for the faint crepitation of his chair and the occasional clink of a bottle. It was all over; the stranger had resumed work.

When she took in his tea she saw broken glass in the corner of the room under the concave mirror, and a golden stain that had been carelessly wiped. She called attention to it.

"Put it down in the bill," snapped her visitor. "For God's sake don't worry me! If there's damage done, put it down in the bill," and he went on ticking a list in the exercise-book before him.

"I'll tell you something," said Fearenside mysteriously. It was late in the afternoon, and they were in the little beershop of Iping Hanger.

"Well?" said Teddy Henfrey.

"This chap you're speaking of, what my darg bit. Vell-he's black. Leastways his legs are.

"I seed through the tear of his trousers and the tear of his glove. You'd have expected a sort of pinky to show, wouldn't you? Well—there wasn't none. Just blackness. I tell you he's as black as my hat."

"My sakes!" said Henfrey. "It's a rummy case altogether. Why, his nose is as pink as paint!"

"That's true," said Fearenside. "I knows that. And I tell 'ee what I'm thinking. That marn's a piebald, Teddy: black here and white there—in patches. And he's ashamed of it. He's kind of half-breed, and the color's come off patchy instead of mixing. I've heard of such things before. And it's the common way with harses, as any one can see."

#### CHAPTER IV.

#### Mr. Cuss Interviews the Stranger

HAVE told the circumstances of the stranger's arrival in Iping with a certain fullness of detail, in order that the curious impression he created may be understood by the reader. But excepting two odd incidents, the circumstances of his stay until the extraordinary day of the club festival may be passed over very cursorily. There were a number of skirmishes with Mrs. Hall on matters of domestic discipline, but in every case until late in April, when the first signs of penury began, he overrode her by the easy expedient of an extra payment. Hall did not like him, and whenever he dared, he talked of the advisability of getting rid of him; but he showed his dislike mainly by concealing it ostentatiously, and avoiding his visitor as much as possible. "Wait till the summer," said Mrs. Hall sagely, "when the artisks are beginning to come. Then we'll see. He may be a bit overbearing, but bills settled punctual is bills settled punctual, whatever you likes to say."

The stranger did not go to church, and indeed made

no difference between Sunday and the irreligious days, even in costume. He worked, as Mrs. Hall thought, very fitfully. Some days he would come down early and be continuously busy. On others he would rise late, pace his room, fretting audibly for hours together, smoke, or sleep in the arm-chair by the fire. Communication with the world beyond the village he had none. His temper continued very uncertain; for the most part his manner was that of a man suffering under almost unendurable provocation, and once or twice things were samped, torn, crushed, or broken in spasmodic gusts of violence. His habit of talking to himself in a low voice grew steadily upon him, but though Mrs. Hall listened conscientiously she could make neither head not tail of what she heard.

He rarely went abroad by day, but at twilight he would go out muffled up enormously, whether the weather was cold or not, and he chose the loneliest paths and those most overshadowed by trees and banks. His goggling spectacles and ghastly, bandaged face under the penthouse of his hat, came with a disagreeable suddenness out of the darkness upon one or two homegoing laborers; and Teddy Henfrey, tumbling out of the "Scarlet Coat" one night at half-past nine, was scared shamefully by the stranger's skull-like head (he was walking hat in hand) lit by the sudden light of the opened inn door. Such children as saw him at nightfall dreamt of bogies, and it seemed doubtful whether he disliked boys more than they disliked him, or the reverse; but there was certainly a vivid enough dislike on either side.

It was inevitable that a person of so remarkable an appearance and bearing should form a frequent topic in such a village as Iping. Opinion was greatly divided about his occupation. Mrs. Hall was sensitive on the point. When questioned, she explained very carefully that he was an "experimental investigator," going gingerly over the syllables as one who dreads pitfalls. When asked what an experimental investigator was, she would say with a touch of superiority that most educated people knew such things as that, and would then explain that he "discovered things." Her visitor had had an accident, she said, which temporarily discolored his face and hands, and being of a sensitive disposition was averse to any public notice of the fact.

Out of her hearing there was a view largely entertained that he was a criminal trying to escape from justice by wrapping himself altogether from the eye of the police. This idea sprang from the brain of Mr. Teddy Henfrey. No crime of any magnitude dating from the middle or end of February was known to have occurred. Elaborated in the imagination of Mr. Gould, the probationary assistant in the National School, this theory took the form that the stranger was an anarchist in disguise, preparing explosives, and he resolved to undertake such detective operations as his time permitted. These consisted for the most part in looking very hard at the stranger way end, or in asking people who had never seen the stranger leading questions about him. But he detected nothing.

Another school of opinion followed Mr. Fearenside, and either accepted the piebald view or some modification of it. As, for instance, Silas Durgan who was heard to assert that "if he chose to show enself at fairs, hea'd make his fortune in no time," and being a bit of a theologian, compared the stranger to the man with the one talent. Yet another view explained the entire matter by regarding the stranger as a harmless lunatic. That had the advantage of accounting for everything straight away. Between these main groups there were waverers and compromisers. Sussex folk have few superstitions, and it was only after the events of early April that the thought of the supernatural was first whispered in the village. Even then it was only credited among the women folk.

But whenever they thought of him, people in Iping on the whole agreed in disliking him. His irritability, though it might have been comprehensible to an urban brain-worker, was an amazing thing to these quiet Sussex villagers. The frantic gesticulations they surprised now and then, the headlong pace after nightfall that swept him upon them round quiet corners, the inhuman bludgeoning of all the tentative advances of curiosity, the taste for twilight that led to the closing of doors, the pulling down of blinds, the extinction of candles and lamps-who could agree with such goings on? They drew aside as he passed down the village, and when he had gone by, young humorists would up with coat collars and down with hat brims, and go pacing nervously after him in imitation of his occult bearing. There was a song popular at that time called "The Bogey Man!" Miss Satchell sang it at the schoolroom concert -in aid of the church lamps-and thereafter, whenever one or two of the villagers were gathered together and the stranger appeared, a bar or so of this tune, more or less sharp or flat, was whistled in the midst of them. Also belated little children would call "Bogey Man!" after him, and make off, tremulously elated.

CUSS, the general practitioner, was devoured by currisity. The bandges excited his professional interest; the report of the thousand-and-one bottles aroused his jealous regard. All through April and May he coveted an opportunity of talking to the stranger, and at last, towards Whisumtide, he could stand it no longer, but hit upon the subscription list for a village nurse as an excuse. He was surprised to find that Mr. Hall did not know his guest's name.

"He gave a name," said Mrs. Hall—an assertion which was quite unfounded—"but I didn't rightly hear it." She thought it seemed so silly not to know the man's name.

Cuss rapped at the parlor door and entered. There was a fairly audible imprecation from within.

"Pardon my intrusion," said Cuss, and then the door closed and cut Mrs. Hall off from the rest of the conversation.

She could hear the murmur of voices for the next ten minutes, then a cry of surprise, a stirring of feet, a chair flung aside, a bark of laughter, quick steps to the door, and Cuss appeared, his face white, his eyes staring over his shoulder. He let the door open behind him, and, without looking at her, strode across the hall and went down the steps, and she heard his feet hurrying along the road. He carried his hat in his hand. She stood behind the har, looking at the open door of the parlor. Then she heard the stranger laughing quietly, and his footsteps came across the room. She could not see his face where she stood. The parlor door slammed, and the place was silent again.

Cuss went straight up the village to Bunting, the vicar.

"Am I mad?" Cuss began abruptly, as he entered the shabby little study. "Do I look like an insane person?"

"What's happened?" said the vicar, putting the ammonite\* on the loose sheets of his forthcoming sermon.

"That chap at the inn-"

"Well?"

"Give me something to drink," said Cuss, and he sat down.

When his nerves had been steadied by a glass of cheap sherry—the only drink the good vicar had available—he told him of the interview he had just had.

"Went in," he gasped, "and began to demand a subscription for that nurse fund. He'd stuck his hands in his pockets as I came in, and he sat down lumpily in his chair. Sniffed. I told him I'd heard he took an interest in scientific things. He said, 'Yes.' Sniffed again. Kept on sniffing all the time, evidently recently caught an infernal cold. No wonder-wrapped up like that. I developed the nurse idea, and all the while kept my eyes open. Bottles-chemicals-everywhere. Balance, test tubes, in stands, and a smell of-evening primrose. Would he subscribe? Said he'd consider it. Asked him point blank was he researching. Said he was. A long research? Got quite cross, a 'damnable long research," said he, blowing the cork out, so to speak. 'Oh?' said I. And out came the grievance. The man was just on the boil, and my question boiled him over. He had been given a prescription-most valuable prescription-what for he wouldn't say. Was it medical? 'Damn you! what are you fishing after?' I apologized. Dignified sniff and cough. He resumed. He'd read it. Five ingredients. Put it down; turned his head. Draught of air from window lifted the paper. Swish, rustle. He was working in a room with an open fireplace, he said. Saw a flicker, and there was the prescription burning and lifting chimneyward. Rushed towards it just as it whisked up chimney. So! Just at that point, to illustrate his story, out came his arm."

"Well?"

"No hand. Just an empty sleeve. Lord! I thought, that's a deformity! Got a cork arm, I suppose, and has taken it off. Then, I thought, there's something odd in that. What the devil keeps that sleeve up and open if there's nothing in it? There was nothing in it, I tell you. Nothing down it, right down to the joint. I could see right down it to the elbow, and there was a glinnmer of light shining through a tear of the cloth. 'Good God! I said. Then estopped. Stared at me with those blank, goggled eyes of his, and then at his sleeve."

"Well?"

"That's all. He never said a word, just glared and put his sleeve back in his pocket quickly. 'I was saying,' said he, 'that there was the prescription burning, wasn't I?' Interrogative cough. 'How the devil," said

<sup>\*</sup> A fossil shell used as a paperweight.

I, 'can you move an empty sleeve like that?' 'Empty sleeve?' 'Yes,' said I, 'an empty sleeve.'

" 'It's an empty sleeve, is 'it? You saw it was an empty sleeve?' He stood up right away. I stood up too. He came towards me in three very slow steps, and stood quite close. Sniffed venomously. I didn' flinch, though I'm hanged if that bandaged knob of his, and those blinkers, aren't enough to unnerve any one, coming quietly up to you."

"'You said it was an empty sleeve?' he said. 'Certainly,' I said. And staring and saying nothing, a barefaced man, unspectacled, starts scratch. Then very quietly he pulled his sleeve out of his pocket again, and raised his arm towards me, as though he would show it to me again. He did it very, very slowly. I looked at it. Seemed an age. 'Well?' said I, clearing my throat; 'there's nothing in it.'

"Had to say something. I was beginning to feel frightened. I could see right down it. He extended it straight towards me, slowly, slowly—just like that—until the cuff was six inches from my face. Queer thing to see an empty sleeve come at you like that! And then—"

"Well?"

"Something-exactly like a finger and a thumb it felt-nipped my nose."

Bunting began to laugh.

"There wasn't anything there!" said Cuss—his voice running up into a shriek at the "there." "It's all very well for you to laugh, but I tell you I was so startled, I hit his cuff hard, and turned round and cut out of the room—l left him—."

Cuss stopped. There was no mistaking the sincerity of his panic. He turned round in a helpless way, and took a second glass of the excellent vicar's very inferior sherry. "When I hit his cuff," said Cuss, "I tell you, it felt exactly like hitting an arm.

"And there wasn't an arm! There wasn't the ghost of an arm!"

Mr. Bunting thought it over. He looked suspiciously at Cuss. "It's a most remarkable story," he said. He looked very wise and grave indeed. "It's really," said Mr. Bunting with judicial emphasis, "a most remarkable story."

#### CHAPTER V

#### The Burglary at the Vicarage

ThE facts of the burglary at the Vicarage come to us chiefly through the medium of the vicar and Monday, the day devoted in Iping to the Chub festivities. Mrs. Bunting, it seems, woke up suddenly in the stillness that comes before the dawn, with a strong impression that the door of their bedroom had opened and closed. She did not arouse her husband at first, but sat up in bed listening. She then distinctly heard the pad, pad, pad of bare feet coming out of the adjoining dressing-room and walking along the passage towards the starcase. So soon as he felt assured of this she aroused the Rev. Mr. Bunting as quietly as possible. He did not strike a light, but putting on his spectacles, his dressing gown, and his bah slippers, went out on the landing to listen. He heard quite distinctly a fumbling going on at his study desk downstairs, and then a violent sneeze.

At that he returned to his bedroom, armed himself with the most obvious weapon, the poker, and descended the staircase as noiselessly as possible. Mrs. Bunting came out on the landing.

The hour was about four, and the ultimate darkness of the night was passed. There was a faint shimmer of light in the hall, but the study doorway vawned impenetrably black. Everything was still, except the faint creaking of the stairs under Mr. Bunting's tread, and the slight movements in the study. Then something snapped, the drawer was opened, and there was a rustle of papers. Then came an imprecation, and a match was struck, and the study was flooded with yellow light. Mr. Bunting was now in the hall, and through the crack of the door he could see the desk and the open drawer, and a candle burning on the desk. But the robber he could not see. He stood there in the hall undecided what to do, and Mrs. Bunting, her face white and intent, crept slowly downstairs after him. One thing kept up Mr. Bunting's courage. The persuasion that this burglar was a resident in the village.

They heard the chink of money, and realized that the robber had found the housekeeping reserve of gold two pounds ten in half sovereigns altogether. At that sound Mr. Bunting was nerved to abrupt action. Gripping the poker firmly, he rushed into the room, closely followed by Mrs. Bunting.

"Surrender!" cried Mr. Bunting fiercely, and then stopped, amazed. Apparently the room was perfectly empty.

Yet their conviction that they had that very moment heard somebody moving in the room had amounted to a certainty. For half a minute perhaps they stood gasping, then Mrs. Bunting went across the room and looked behind the screen, while Mr. Bunting, by a kindred impulse, peered under the desk. Then Mrs. Bunting turned back the window curtains and Mr. Bunting looked up the chinney, and probed it with the poker. Then Mrs. Bunting scrutinized the waste-paper lasket, and Mr. Bunting opened the coal-scuttle. Then they came to a stop, and stood with eyes interrogating one another.

"I could have sworn-" said Mr. Bunting.

"The candle !" said Mr. Bunting. "Who lit the candle ?"

"The drawer !" said Mrs. Bunting. "And the money's gone !"

She went hastily to the doorway.

"Of all the extraordinary occurrences-----"

There was a violent sneeze in the passage. They ushed out, and as they did so the kitchen door slammed. "Dring the candle !" said Mr. Bunting, and led the way. They both heard the sound of bolts being hastily shot back.

As he opened the kitchen door he saw through the scullery that the back door was just opening, and the faint light of early dawn displayed the dark masses of the garden beyond. He was certain that nothing went out of the door. It opened, stood open for a moment, and then closed with a slawn. As it did so, the candle Mrs. Bunting was bringing from the study flickered and flared. . . . It was a minute or more before they entered the kitchen.

The place was empty. They refastened the back door, examined the kitchen, pantry, and scullery thoroughly, and at last went down into the cellar. There was not a soult to be found in the house, search as they would.

Daylight found the vicar and his wife, a quaintly costumed little couple, still marveling about on their own ground floor by the unnecessary light of a guttering candle.

"Of all the extraordinary affairs," began the vicar for the twentieth time.

"My dear," said Mrs. Bunting, "there's Susie coming down. Just wait here until she has gone into the kitchen, and then slip upstairs."

#### CHAPTER VI

#### The Furniture That Went Mad

N OW it happened that in the early hours of Whit Monday, before Millie was hunted out for the day, Mr. Hall and Mrs. Hall both rose and went noisclessly down into the cellar. Their business there was of a private nature, and had something to do with the specific gravity of their beer.

They had hardly entered the cellar when Mrs. Hall found she had forgotten to bring down a bottle of sarsaparilla from their joint room. As she was the expert and principal operator in this affair, Hall very properly went upstairs for it.

On the landing he was surprised to see that the stranger's door was ajar. He went on into his own room and found the bottle as he had been directed.

But as he came downstairs, he noticed that the bolts on the front door had been shot back--that the door was, in fact, simply on the latch. And, with a flash of inspiration, he connected this with the stranger's room upstairs and the suggestions of Mr. Teddy Henfrey. He distinctly remembered holding the candle while Mrs. Hall shot these bolts overright. At the sight he stopped, gaping; then, with the bottle still in his hands, went upstairs again. He rapped at the stranger's door. There was no answer. He rapped again; then pushed the door wide open and entreed.

It was as he expected. The bed, the room also, was empty. And what was queerer, even to his heavy intelligence, on the bedroom chair and along the rail of the bed were scattered the garments, the only garments so far as he knew, and the bandages of their guest. His big slouch hat even was cocked jauntily over the bedpost.

As Hall stood there he heard his wife's voice coming out of the depth of the cellar, and with that rapid telescoping of the syllables and interrogative cocking up of the final words to a high note, by which the West Sussex villager is wont to indicate a brisk impatience. "Gearee! You gart whad a wand?"

At that he turned and hurried down to her.

"Janny," he said over the rail of the cellar steps, " 'tas the truth what Henfrey sez. 'E's not in uz room, 'e en't. And the front door's onbolted."

At first Mrs. Hall did not understand, and so soon

as she did she resolved to see the empty room for herseli. Hall, still holding the bottle, went first. "If 'e en't there," he said, " is close' are. And what's 'e doin' "ithout 'is close, than? 'Tas a most curius basness."

As they came up the cellar steps they both, it was afterwards ascertained, fancied they heard the front door open and shut, but, seeing it closed and nothing there, neither said a word to the other about it at the time. Mrs. Hall passed her husband in the passage, and ran on first upstafrs. Some one sneezed on the stircase. Hall, following six steps behind, thought that he heard her sneeze; she, going on first, was under the impression that Hall was sneezing. She flung open the door and stood regarding the room. "Of all the curious!" she said.

She heard a sniff close behind her head, as it seemed, and, turning, was surprised to see Hall a dozen feet off on the topmost stair. But in another moment he was beside her. She bent forward and put her hand on the pillow and then under the clothes.

"Cold," she said. "He's been up this hour or more."

As she did so a most extraordinary thing happened. The bedclothes gathered themselves together, leapt up suddenly into a sort of peak, and then jumped headlong over the bottom rail. It was exactly as if a hand had clutched them in the centre and flung them aside. Immediately after, the stranger's hat hopped off the bedpost, described a whirling flight in the air through the better part of a circle, and then dashed straight at Mrs. Hall's face. Then as swiftly came the sponge from the washstand, and then the chair, flinging the stranger's coat and trousers carelessly aside, and laughing dryly in a voice singularly like the stranger's, turned itself up with its four legs at Mrs. Hall, seemed to take aim at her for a moment, and charged at her. She screamed and turned, and then the chair legs came gently but firmly against her back and impelled her and Hall out of the room. The door slammed violently. and was locked. The chair and bed seemed to be executing a dance of triumph for a moment, and then abruptly everything was still.

Mrs. Hall was left almost in a fainting condition in Mr. Hall's arms on the landing. It was with the greatest difficulty that Mr. Hall and Millie, who had been roused by her scream of alarm, succeeded in getting her downstairs, and applying the restoratives customary in such cases.

"'Tas sperits," said Mrs. Hall. "I know 'tas sperits. I've read the papers of en. Tables and chairs leaping and dancing . . ."

"Take a drop more, Janny," said Hall. " 'Twill steady ye."

"Just a drop more, Janny," said Hall. "Your nerves is all upset." They sent Millie across the street through the golden five o'clock sunshine to rouse up Mr. Sandy Wadgers, the blacksmith.

Mr. Hall's compliments, and the furniture upstairs was behaving most extraordinary. Would Mr. Wadgers come round?

He was a knowing man, was Mr. Wadgers, and very resourceful. He took quite a grave view of the case. "Arm darmed if thet ent witchcraft," was the view of Mr. Sandy Wadgers. "You warnt horseshoes for such gentry as he."

He came round greatly concerned. They wanted him to lead the way upstairs to the room; but he didn't seem to be in any hurry. He preferred to talk in the passage. Over the way Huxter's apprentice came out, and began taking down the shutters of the tobacco window. He was called over to join the discussion. Mr. Huxter naturally followed in the course of a few mintutes. The Anglo-Saxon genius for parliamentary govermment asserted itself: there was a great deal of talk and no decisive action.

"Let's have the facts first," insisted Mr. Sandy Wadgers. "Let's be sure we'd be acting perfectly right in bustin that there door open. A door onbust is always open to bustin', but ye can't onbust a bust door once you're busted en."

And suddenly and most wonderfully, the door of the room upstairs opened of its own accord, and as they looked up in amazement, they saw descending the stairs the muffled figure of the stranger, staring more blackly and blankly than ever with those unreasonably large glass eyes of his. He came down stiffly and slowly, staring all the time; he walked across the passage, staring, then stopped.

"Look there!" he said, and their eyes followed the direction of his gloved finger, and saw a bottle of sarsaparila hard by the cellar door. Then he entered the parlor, and suddenly, swiftly, viciously, slammed the door in their faces.

Not a word was spoken until the last echoes of the slam had died away. They stared at one another.

"Well, if that don't lick everything !" said Mr. Wadgers, and left the alternative unsaid.

"I'd go in and ask'n 'bout it," said Wadgers to Mr. Hall. "I'd d'mand an explanation."

It took some time to bring the landlady's husband up to that pitch. At last he rapped, opened the door, and got as far as:

"Excuse me-"

"Go to the devil!" said the stranger in a tremendous voice, and, "Shut that door after you."

So this brief interview terminated.

#### CHAPTER VII

#### The Unveiling of the Stranger

THE stranger went into the little parlor of the morning, and there he remained until near midday, the blinds down, the door shut, and none, after Hall's repulse, venturing near him.

All that time he must have fasted. Thrice he rang

his bell, the third time furiously and continuously, but no one answered him. "Him and his 'Go to the devil,' indeed!" said Mrs. Hall. Presently came an imperfect rumour of the burglary at the Vicarage, and two and two were put together. Hall, assisted by Wadgers, went off to find Mr. Shuckleforth, the magistrate, and take his advice. No one ventured upstairs. How the stranger occupied himself is unknown. Now and then he would stride violently up and down, and twice came an outburst of curses, a tearing of paper, and a violent smashing of bottles.

The little group of scared but curious people increased. Mrs. Huxter came over; some gay young fellows resplendent in black, ready-made jackets and pique paper ties—for it was Whit Monday—joined the group with confused and confusing interrogations. Young Archie Harker distinguished himself by going up the yard and trying to peep under the drawn blinds. He could see nothing, but gave reason for supposing that he did, and others of the Iping youth presently joined him.

It was the finest of all possible Whit Mondays, and down the village street stood a row of nearly a dozen booths, a shooting-gallery, and on the grass by the forge were three yellow and chocolate wagons, and some picturesque strangers of both sexes putting up a coccanut shy. The gentlemen wore blue jerseys, the ladies white aprons and quite fashionable hats with heavy plumes. Woodyer, of the "Purple Fawn," and Mr. Jaggers, the cobbler, who also sold second-hand ordinary bicycles, were stretching a string of union jacks and royal ensigns, which had originally celebrated the first Victorian Jubile, across the road.

And inside in the artificial darkness of the parlour, into which only one thin jet of sunlight penetrated, the stranger, hungry we must suppose, and fearful, hidden in his uncomfortable hot wrappings, pored through his dark glasses upon his paper, or chinked his dirty little bottles, and occasionally swore savagely at the boys, audible, if invisible, outside the windows. In the corner by the frequee lay the fragments of half a dozen smashed bottles, and a pungent twang of chlorine tainted the air. So much we know from what was heard at the time, and from what was subsequently seen in the room.

About noon he suddenly opened his parlour door and stood glafing fixedly at the three or four people in the bar. "Mrs. Hall," he said. Somebody went sheepishly and called for Mrs. Hall.

Mrs. Hall appeared after an interval, a little short of breath, but all the facerer for that. Hall was still out. She had deliberated over this scene, and she came holding a little tray with an unsettled bill upon it. "Is it your bill you're wanting, sir?" she said.

"Why wasn't my breakfast laid? Why haven't you prepared my meals and answered my bell? Do you think I live without eating?"

"Why isn't my bill paid?" said Mrs. Hall. "That's what I want to know."

"I told you three days ago I was awaiting a remittance-----"

"I told you three days ago I wasn't going to await no remittances. You can't grumble if your breakfast waits a bit, if my bill's been waiting these five days, can you?"

The stranger swore briefly but vividly.

"Nar, nar !" from the bar.

"And I'd thank you kindly, sir, if you'd keep your swearing to yourself, sir," said Mrs. Hall.

The stranger stood looking more like an angry diving helmet than ever. It was universally felt in the bar that Mrs. Hall had the better of him. His next words showed as much.

"Look here, my good woman----" he began.

"Don't 'good woman' me," said Mrs. Hall.

"I've told you my remittance hasn't come."

"Remittance, indeed !" said Mrs. Hall.

"You told me three days ago that you hadn't anything but a sovereign's worth of silver upon you."

"Well, I've found some more."

"'Ul-lo!" from the bar.

"I wonder where you found it?" said Mrs. Hall.

That seemed to annoy the stranger, very much. He stamped his foot. "What do you mean?" he said.

"That I wonder where you found it," said Mrs. Hall. "And before I take any bills, or get any breakfasts, or do any such things whatsoever, you got to tell me one or two things I don't understand, and what nobody don't understand. I want know what you been doing 1 my chair upstars, and I want know how tivs your room was empty and how you got in again? Them as stops in this house comes in by doors—that's the rule of this house, and that you didn't do, and what I want know is how you did come. And I want know—"

**S**UDDENLY the stranger raised his gloved hands clenched, stamped his foot, and said, "Stop!" with such extraordinary violence that he silenced her instantly.

"You don't understand," he said, "who I am or what I am. TII show you. By heaven! I'II show you." Then he put his open palm over his face and withdrew it. The centre of his face became a black cavity. "Here," he said. He stepped forward and handed Mrs. Hall something which she, staring at his metamorphosed face, accepted automatically. Then, when she saw what it was, she screamed loudly, dropped it, and staggered back. The nose—it was the stranger's nose! pink and shining—rolled on the floor with a sound of hollow cardboard.

Then he removed his spectacles, and every one in the bar gasped. He took off his hat, and with a violent gesture tore at his whiskers and bandages. For a moment they resisted him. A flash of horrible anticipation passed through the bar. "Oh, my Gard!" said some one. Then off they came.

It was worse than anything. Mrs. Hall, standing open-mouthed and horror-struck, shrieked at what she saw, and made for the door of the house. Every one began to move. They were prepared for scars, disfigurement, tangible horrors—but nothing/1 The bandages and false hair flew across the passage into the bar, making a hobbledehoy jump to avoid them. Every one tumbled on every one else down the steps. For the man who stood there shouting some incoherent explanation was a solid, gesticulating figure up to the coat-collar of him, and then—nothingness, no visible thing at all!

People down the village heard shouts and shricks, and looking up the street saw the "Coach and Horses" violently firing out its humanity. They saw Mrs. Hall fall down, and Mr. Teddy Hentrey jump to avoid tumbling over her, and then they heard the frightful screams of Millie, who, emerging suddenly from the kitchen at the noise of the tumult, had come upon the headless stranger from behind. These ceased suddenly.

Forthwith every one all the way down the streetthe sweetstuff-seller, cocoanut-shy proprietor and his assistant, the swing man, little boys and girls, rustic dandies, smart wenches, smocked elders, and aproned gypsies-began running towards the inn, and in a miraculously short space of time a crowd of perhaps forty people, and rapidly increasing, swayed, and hooted, and inquired, and exclaimed, and suggested in front of Mrs. Hall's establishment. Everybody seemed eager to talk at once, and the result was Babel. A small group supported Mrs. Hall, who was picked up in a state of collapse. There was a confusion, and the incredible evidence of a vociferous eye-witness. "O Bogie." "What's he been doin', then?" "Ain't hurt the girl, 'as 'e?" "Run at en with a knife, I believe." "No 'ed, I tell ye. I don't mean no manner of speaking, I mean Marn 'ithout a 'Ed!" "Narnsense! 'tis some conjuring trick." "Fetched off 's wrappings, 'e did-"

In its struggles to see in through the open door the crowd formed itself into a struggling wedge, with the more adventurous apex nearest the inn. "He stood for a moment, I heerd the gal scream, and he turned. I saw her skirts whisk, and he went alter her. Didn't take ten seconds. Back he comes with a knife in his hand and a loaf, stood just as if he was staring. Not a moment ago. Went in that there door. I tell 'e, 'e ain't gart no 'ed 'tall. You just missed em—..."

There was a disturbance behind, and the speaker stopped to step aside for a little procession that was marching very resolutely towards the house; first Mr. Hall, very red and determined, then Mr. Bobby Jaffers, the village constable, and then the wary Mr. Wadgers. They had come now armed with a warrant.

People shouted conflicting information of the recent circumstances. "'Ed or no 'ed," said Jaffers: "I got to 'rest en, 'rest en I will."

Mr. Hall marched up the steps, marched straight to the door of the parlour and found it open. "Constable," he said, "do your duty."

Jaffers marched in, Hall next, Wadgers last. They saw in the dim light the headless figure facing them, with a gnawed crust of bread in one gloved hand and a chunk of cheese in the other.

"That's him," said Hall.

"What the devil's this?" came in a tone of angry expostulation from above the collar of the figure.

"You're a darned rum customer, mister," said Mr. Jaffers. "But 'ed or no 'ed the warrant says 'body,' and duty's duty----"

"Keep off !" said the figure, starting back.

Abruptly he whipped down the bread and cheese,

and Mr. Hall just grasped the knife on the table in time to save it. Off came the stranger's left glove, and was slapped in Jaffer's face. In another moment Jaffers, cutting short some statement concerning a warrant, had gripped him by the handless wrist, and caught his invisible throat. He got a sounding kick on the shin that made him shout, but he kept his grip. Hall sent the knife sliding along the table to Wadgers, who acted as goal-keeper for the offensive, so to speak, and then stepped forward as Jaffers and the stranger swayed and staggered towards him, clutching and hitting in. A chair stood in the way, and went aside with a crash as they came down together.

"Get the feet," said Jaffers between his teeth.

Mr. Hall, endeavouring to act on instructions, received a sounding kick in the ribs that disposed of him for a moment; and Mr. Wadgers, seeing the decapitated stranger had rolled over and got the upper side of Jaffers, retreated towards the door, knife in hand, and so collided with Mr. Huxter and the Sidderbridge carter coming to the rescue of law and order. At the same moment down came three or four bottles from the chiffonier and shot a web of pungency into the air of the room.

"I'll surrender." cried the stranger, though he had Jaffers down, and in another moment he stood up panting, a strange figure, headless and handless—for he had pulled off his right glove now as well as his left. "It's no good," he said, as i solbhing for breath.

**T** was the strangest thing in the world to hear that voice coming as if out of empty space, but the Sussex peasants are perhaps the most matter-of-fact people under the sun. Jaffers got up also, and produced a pair of handcuffs. Then he stared.

"I say!" said Jaffers, brought up short by a dim realisation of the incongruity of the whole business. "Darn it! Can't use 'em as I can see."

The stranger ran his arm down his waistcoat, and, as if by a miracle, the buttons to which his empty sleeve pointed became undone. Then he said something about his shin, and stooped down. He seemed to be fumbling with his shoes and socks.

"Why!" said Huxter suddenly, "that's not a man at all. It's just empty clothes, Look! You can see down his collar and the linings of his clothes. I could put my arm—"

He extended his hand; it seemed to meet something in mid-air, and he drew it back with a sharp exclamation. "I wish you'd keep your fingers out of my eye," said the aerial voice in a tone of savage expostulation. "The fact is, I'm all here—head, hands, legs, and all the rest of it, but it happens I'm invisible. It's a confounded nuisance, but I am. That's no reason why I should be poked to pieces by every stupid bumpkin in Injur, is it?"

The suit of clothes, now all unbuttoned and hanging loosely upon its unseen supports, stood up, arms akimbo.

Several other of the men folk had now entered the room, so that it was closely crowded. "Invisible, eh?" said Huxter, ignoring the stranger's abuse. "Who ever heard the likes of that?"

"It's strange, perhaps, but it's not a crime. Why

am I assaulted by a policeman in this fashion ...... ?"

"Ah! that's a 'different matter," said Jaffers. "No doubt you are a bit difficult to see in this light, but I got a warrant and it's all correct. What I'm after ain't no invisibility, it's burglary. There's a house been broke into, and money took."

"Well?"

"And circumstances certainly point----"

"Stuff and nonsense!" said the Invisible Man.

"I hope so, sir. But I've got my instructions-

"Well," said the stranger, "I'll come. I'll come. But no handcuffs."

"It's the regular thing," said Jaffers.

"No handcuffs," stipulated the stranger.

"Pardon me," said Jaffers.

Abruptly the figure sat down, and before any one could realize what was being done, the slippers, socks, and trousers had been kicked off under the table. Then he sprang up again and flung off his coat.

"Here, stop that," said Jaffers, suddenly realizing what was happening. He gripped the waistcoat, it struggled, and the shirt slipped out of it and left it limp and empty in his hand. "Hold him!" said Jaffers loudly. "Once he gets the things off—"

"Hold him!" cried every one, and there was a rush at the fluttering white shirt, which was now all that was visible of the stranger.

The shirt sleeve planted a shrewd blow in Hall's face that stopped his open-armed advance and sent him backward into old Toothsome, the sexton, and in another moment the garment was lifted up, and became convulsed and vacantly flapping about the arms, even as a shirt that is being thrust off over a man's head. Jaffers clutched at it, and only helped to pull it off. He was struck in the mouth out of the air, and incontinently drew his truncheon and smote Teddy Henfrey savagely upon the crown of his head.

"Look out!" said everybody, fencing at random and hitting at nothing. "Hold him! Shut the door! Don't let him loose. I got something! Here he is !" A perfect Babel of noises they made. Everybody, it seemed, was being hit all at once, and Sandy Wadgers, knowing as ever, and his wits sharpened by a frightful blow on the nose, reopened the door and led the rout. The others, following incontinently, were jammed for a moment in the corner by the doorway. The hitting continued. Phipps, the Unitarian, had a front tooth broken, and Henfrey was injured in the cartilage of his ear. Jaffers was struck under the jaw, and, turning, caught at something that intervened between him and Huxter in the mêlêe, and prevented their coming together. He felt a muscular chest, and in another moment the whole mass of struggling, excited men shot out into the crowded hall.

"I got him!" shouted Jaffers, choking and reeling through them all, and wrestling with purple face and swelling veins against his unseen enemy.

Men staggered right and left as the extraordinary conflict swayed swiftly towards the house door and went spinning down the half dozen steps of the inn. Jaffers cried in a strangled voice, holding tight nevertheless, and making play with his knee, spun round and fell heavily undermost with his head on the gravel. Only then did his fingers relax.

There were excited cries of "Hold him!" "Invisible!" and so forth, and a young fellow, a stranger in the place whose name did not come to light, rushed in at once, caught something, missed his hold, and fell over the constable's porstrate body. Half-way across the road a woman screamed as something pushed by her, a dog, kicked apparently, yelped and ran howing into Huxter's yard, and with that the transit of the Invisible Man was accomplished. For a space people stored aread and gesticulating, and then came panic, and scattered them abroad through the village as a gust scatters' deal leaves. But Jaffers lay quite still, face and knees upward bent, at the foot of the steps of the inn.

#### CHAPTER VIII

#### In Transit

THE eighth chapter is exceedingly brief, and relates that Gibbins, the amateur naturalist of the district, while lying out on the spacious open downs without a soul within a couple of miles of him as he thought, and almost dozing, heard close to him the sound of a man coughing, sneezing, and then swearing savagely to himself, and looking beheld nothing. Yet the voice was indisputable. It continued to swear with that breadth and variety that distinguishes the swearing of a cultivated man. It grew to a climax, diminished again and died away in the distance, going, as it seemed to him, in the direction of Adderdean. It lifted to a spasmodic sneeze, and ended. Gibbins had heard nothing of the morning's occurrences, but the phenomenon was so striking and disturbing, that his philosophical tranquillity vanished; he got up hastily and hurried down the steepness of the hill towards the village, as fast as he could go.

#### CHAPTER IX

#### Mr. Thomas Marvel

YoU must picture Mr. Thomas Marvel as a person of copious, flexible visage, a nose of cylindrical protusion, a liquorish, ample, fluctuating mouth, and a beard of bristling eccentricity. His figure inclined to embonpoint, his short limbs accentuated this inclination. He wore a furry silk hat, and the frequent substitution of twine and shoe-laces for buttons, apparent at critical points of his costume, marked a man essentially bachelor.

Mr. Thomas Marvel was sitting with his feet in a ditch by the roadside over the down towards Adderdean, about a mile and a half out of Iping. His feet, save for socks of irregular open-work, were bare, his big toes were broad, and pricked like the cars of a watchful dog. In a leisurely manner—he did everything in a leisurely manner—he was contemplating a pair of lace-tup boots. They were the soundest boots he had come across for a long time, but too large for him, whereas those he had had vere, in dry weather, a very confortable fit, but too thin soled for damp. Mr. Thomas Marvel hated roothy boots, but then he hated

damp. He had never properly thought out which he hated most, and it was a pleasant day, and there was nothing better to do. So he put the four boots in a graceful group on the turi, and looked at them. And seeing them there among the grass and springing agrimony, it suddenly occurred to him that both pairs were exceedingly ugly to see. He was not at all startled by a voice behind him.

"They're boots, anyhow," said the Voice.

"They are—Charity Boots," said Mr. Thomas Marvel, with his head on one side regarding them distastefully; "and which is the ugliest pair in the whole blessed universe, I'm darned if I know!"

"H'm," said the Voice.

"I've worn worse—in fact, I've worn none. But none so owdacious ugly—i'ly ou'll allow the expression. I've been cadging boots—in particular—for days, because I was sick of *them*. They're sound enough, of course. But a gentleman on tramp sees such a thundering lot of his boots. And if you'll believe me, I've raised nothing in the whole blessed county, try as I would, but *them*. Look at 'em! And a good county for boots, too, in a general way. But it's just my promiscuous luck. Tve got my boots in this county ten years or more. And then they treat you like this."

"It's a beast of a county," said the Voice, "and pigs for people."

"Ain't it?" said Mr. Thomas Marvel. "Lord! But them boots! It beats it."

He turned his head over his shoulder to the right, to look at the boots of his interlocutor, with a view to comparisons, and lo l where the boots of his interlocutor should have been were neither legs nor boots. He unred his head over his shoulder to the left, and there also were neither legs nor boots. He was irradiated by the dawn of a great amazement. "Where *are* yer?" said Mr. Thomas Marvel over his shoulder, and coming on all fours. He saw a stretch of empty down, with the wind swaying the remote green-pointed furze bushes.

"Am I drunk?" said Mr. Marvel. "Have I had visions? Was I talking to myself? What the----"

"Don't be alarmed," said a Voice.

"None of your ventriloquising me." said Mr. Thomas Marvel, rising sharply to his feet. "Where are yer? Alarmed, indeed!"

"Don't be alarmed," repeated the Voice.

"You'll be alarmed in a minute, you silly fool," said Mr. Thomas Marvel. "Where arc yer? Lemme get my mark on yer...

"Are yer buried?" said Mr. Thomas Marvel after an interval.

There was no answer. Mr. Thomas Marvel stood bootless and amazed, his jacket nearly thrown off.

"Peewit," said a peewit very remote.

"Peewit, indeed !" said Mr. Thomas Marvel. "This ain't no time for foolery." The down was desolate east and west, north and south; the road, with its shallow ditches and white bordering stakes, ran smooth and empty north and south, and, save for that peewit, the blue sky was empty too. "So help me," said Mr. Thomas Marvel, shuffling his coat on to his shoulders again. "It's the drink. I might ha' known." "It's not the drink," said the Voice. "You keep your nerves steady."

"Ow I" said Mr. Marvel, and his face grew white amidst its patches. "It's the drink," his lips repeated noiselessly. He remained staring about him, rotating slowly backwards. "I could have *swore* I heard a voice," he whispered.

"Of course you did."

"It's there again," said Mr. Marvel, closing his eyes and clasping his hand on his brow with a tragic gesture. He was suddenly taken by the collar and shaken violently, and left more dazed than ever. "Don't be a fool!" said the Voice.

"I'm-off-my-blooming-chump!" said Mr. Marvel. "It's no good. It's fretting about them blarsted boots. I'm off my blessed, blooming chump. Or it's spirits!"

"Neither one thing nor the other," said the Voice. "Listen!"

"Chump!" said Mr. Marvel.

"One minute," said the Voice penetratingly, tremulous with self-control.

"Well?" said Mr. Thomas Marvel, with a strange feeling of having been dug in the chest by a finger.

"You think I'm just imagination—just imagination?" "What else *can* you be?" said Mr. Thomas Marvel, rubbing the back of his neck.

"Very well," said the Voice in a tone of relief. "Then I'm going to throw flints at you till you think differently."

"But where are yer?"

THE Voice made no answer. Whizz came a flint, apparently out of the air, and missed Mr. Marvel's shoulder by a hair's breadth. Mr. Marvel, turning, saw a flint jerk up into the air, trace a complicated path, hang for a moment, and then fall at his feet with almost invisible rapidity. He was too annazed to dodge. Whizz it came, and ricocheted from a bare too into the ditch. Mr. Thomas Marvel jumped a foot and howled aloud. Then he started to run, tripped over an unseen obstacle, and came head over heels into a sitting position.

"Now," said the Voice, as a third stone curved upward and hung in the air above the tramp, "am I imagination?"

Mr. Marvel, by way of reply, struggled to his feet, and was immediately rolled over again. He lay quiet for a moment.

"If you struggle any more," said the Voice, "I shall throw the flint at your head."

"It's a fair do," said Mr. Thomas Marvel, sitting up, taking his wounded toe in hand, and fixing his eye on the third missile. "I don't understand it. Stones finging themselves. Stones talking. Put yourself down. Rot away. I'm done."

The third flint fell.

"It's very simple," said the Voice. "I'm an invisible man."

"Tell us something I don't know," said Mr. Marvel, gasping with pain. "Where you've hid-how you do it-I don't know. I'm beat." "That's all," said the Voice. I'm invisible. That's what I want you to understand."

"Any one could see that. There is no need for you to be so confounded impatient, mister. Now, then. Give us a notion. How are you hid?"

"I'm invisible. That's the great point. And what I want you to understand is this \_\_\_\_\_"

"But whereabouts?" interrupted Mr. Marvel.

"Here-six yards in front of you."

"Oh, come! I ain't blind. You'll be telling me next you're just thin air. I'm not one of your ignorant tramps----"

"Yes. I am-thin air. You're looking through me."

"What! Ain't there any stuff to you? Vox etwhat is it?-jabber. Is it that?"

"I am just a human being—solid, needing food and drink, needing covering, too. . . . But I'm invisible. You see? Invisible. Simple idea. Invisible."

"What, real like?"

"Yes, real."

"Let's have a hand of you," said Marvel, "if you are real. It won't be so darn out-of-the-way like then-----

"Lord!" he said, "how you made me jump!-gripping me like that!"

He felt the hand that had closed round his wrist with his disengaged fingers, and his touch went timorously up the arm, patted a muscular chest, and explored a bearded face. Marvel's face was astonishment.

"I'm dashed!" he said. "If this don't beat cockfighting! Most remarkable —And there I can see a rabbit clean through you arf a mile away! Not a bit of you visible—except—..."

He scrutinised the apparently empty space keenly. "You 'aven't been eatin' bread and cheese?" he asked, holding the invisible arm.

"You are quite right. It's not assimilated into the system."

"Ah !" said Mr. Marvel. "Sort of ghostly, though."

"Of course, all this isn't half so wonderful as you think."

"It's quite wonderful enough for my modest wants," said Mr. Thomas Marvel. "Howjer manage it? How the dooce is it done?"

"It's too long a story. And besides-----"

"I tell you, the whole business fair beats me," said Mr. Marvel.

"What I want to say at present is this: I need help. I have come to that. I came upon you suddenly. I was wandering, mad with rage, naked, impotent. I could have murdered.... And I saw you----"

"Lord" said Mr. Marvel.

"I came up behind you-hesitated-went on."

Mr. Marvel's expression was eloquent.

"Then stopped. 'Here,' I said, 'is an outcast like myself. This is the man for me.' So I turned back and came to you. You. And-----"

"Lord!" said Mr. Marvel. "But I'm all in a dizzy. May I ask: How is it?—and what you may be requiring in the way of help? Invisible!"

"I want you to help me get clothes and shelter, and then with other things. I've left them long enough. If you won't—well!... But you will—must." "Look here," said Mr. Marvel. "I'm too flabbergasted. Don't knock me about any more. And leave neg to. I must get steady a bit. And you've pretty near broken my toe. It's all so unreasonable. Empty downs, empty sky. Nothing visible for miles except the bosom of Nature. And then comes a voice. A voice out of haven! And stones. And a fist. Lord!"

"Pull yourself together," said the Voice, "for you have to do the job I've chosen for you."

Mr. Marvel blew out his cheeks, and his eyes were round.

"I've chosen you," said the Voice. "You are the only man, except some of those fools down there, who knows there is such a thing as an Invisible Man. You have to be my helper. Help me—and I will do great things for you. An Invisible Man is a man of power." He stopped for a moment to sneeze violently.

"But if you betray me," he said, "if you fail to do as I direct you-"

He paused and tapped Mr. Marvel's shoulder smartly. Mr. Marvel gave a yelp of terror at the touch. "I don't want to betray you," said Mr. Marvel, edging away from the direction of the fingers. "Don't you go a-thinking that, whatever you do. All I want to do is to help you—just tell me what I got to do. (Lord1) Whatever you want done, that I'm most willing to do."

#### CHAPTER X

#### Mr. Marvel's Visit to Iping

FTER the first gusty panic had spent itself, Iping became argumentative. Scepticism suddenly reared its head-rather nervous scepticism, not at all assured of its back, but scepticism nevertheless. It is so much easier not to believe in an Invisible Man, and those who had actually seen him dissolve into air or felt the strength of his arm could be counted on the fingers of two hands. And of these witnesses, Mr. Wadgers was presently missing, having retired impregnably behind the bolts and bars of his own house, and Jaffers was lying stunned in the parlor of the "Coach and Horses." Great and strange ideas transcending experience often have less effect upon men and women than smaller, more tangible considerations. Iping was gay with bunting, and everybody was in gala dress. Whit Monday had been looked forward to for a month or more. By the afternoon even those who believed in the Unseen were beginning to resume their little amusements in a tentative fashion, on the supposition that he had quite gone away, and with the sceptics he was already a jest. But people-sceptics and believers alike-were remarkably sociable all that day.

Haysman's meadow was gay with a tent, in which Mrs. Bunting and other ladies were preparing tea, while without, the Sunday school children ran races and played games under the noisy guidance of the curate and the Misses Curss and Sackbut. No doubt there was a slight uneasiness in the air, but people for the most part had the sense to conceal whatever imaginative qualms they experienced. On the village green an inclined string, down which, clinging the while to a pulley-soung handle, one could be hurled violently against a sack at the other end, came in for considerable favor among the adolescent, as also did the swings and the cocoanut-shies. There was also promenading, and the steam organ attached to a small roundabout filled the air with a pungent flavor of oil and with equally pungent music. Members of the club, who had attended church in the morning, were splendid in badges of pink and green, and some of the gayer minded had also adorned their bowler hats with brilliant colored favors of ribbon. Old Fletcher, whose conceptions of holiday-making were sever, was visible through the jasmine about his window or through the open door (whichever way you chose to look) poised delicately on a plank supported on two chairs, and whitewashing the ceiling of his front room.

About four o'clock a stranger entered the village from the direction of the downs. He was a short, stout person in an extraordinarily shably top hat, and he appeared to be very much out of breath. His checks were alternately limp and tightly puffed. His mottled face was apprehensive, and he moved with a sort of reluctant altacrity. He turned the comer by the church and directed his way to the "Coach and Horses." Among others, old Fletcher remembers seeing him, and indeed the old gentleman was so struck by his peculiar agitation that he inadvertently allowed a quantity of whitewash to run down the brush into the sleeve of his coat while regarding him.

This stranger, to the perceptions of the proprietor of the ecocanut-shy, appeared to be talking to himself, and Mr. Huxter remarked the same thing. He stopped at the foot of the "Coach and Horses" steps, and, according to Mr. Huxter, appeared to undergo a severe internal struggle before he could induce himself to enter the house. Finally he marched up the steps, and was seen by Mr. Huxter to turn to the left and open the door of the parlor. Mr. Huxter heart voices from within the room and from the bar apprising the man of his error.

"That room's private!" said Hall, and the stranger shut the door clumsily and went into the bar.

In the course of a few minutes he reappeared, wiping his lips with the back of his hand, with an air of quiet satisfaction that somehow impressed Mr. Huxter as assumed. He stood looking about him for some moments, and then Mr. Huxter saw him walk in an oddly furtive manner towards the gates of the yard, upon which the parlor window opened. The stranger, after some hesitation, leant against one of the gate-posts, produced a short clay pipe, and prepared to fall it. His fingers trembled while doing so. He lit it clumsily, and, folding his arms, began to smoke in a languid attitude, an attitude which his occasional quick glances up the vard altogether belied.

All this Mr. Huxter saw over the canisters of the tobacco window, and the singularity of the man's behavior prompted him to maintain his observation.

Presently the stranger stood up abruptly and put his pipe in his pocket. Then he vanished into the yard. Forthwith Mr. Huxter, conceiving he was witness of some petty larceny, leapt round his counter and ran out into the road to intercept the thief. As he did so, Mr. Marvel reappeared, his hat askew, a big bundle in a blue tablecloth in one hand, and three books tied together—as it proved afterwards with the vicar's braces—in the other. Directly he saw Huxter he gave a sort of gasp, and turning sharply to the left began to run. "Stop thiel'!" cried Huxter, and set off after him.

Mr. Huxter's sensations were vivid but brief. He saw the man just before him, and sprinting briskly for the church corner and the down road. He saw the village flags and festivities beyond, and only a face or two turned toward him. He bawled, "Stop thief" again, and set off gallantly. He had hardly gone ten strides before his shin was caught in some mysterious fashion, and he was no longer running but flying with incredible velocity through the air. He saw the ground suddenly close to his head. The world seemed to splash into a million whirling specks of light, and "subsequent proceedings interested him no more."

#### CHAPTER XI

#### In the "Coach and Horses"

OW, in order to understand clearly what had happened in the inn, it is necessary to go back to the moment when Mr. Marvel first came into view of Mr. Huxter's window.

At that precise moment Mr. Cuss and Mr. Bunting were in the parlor. They were seriously investigating the strange occurrences of the morning, and were, with Mr. Hal's permission, making a thorough examination of the Invisible Man's belongings. Jaffers had partially recovered from his fall and had gone home in the charge of his sympathetic friends. The stranger's scattered garments had been removed by Mrs. Hall, and the room tidled up. And on the table under the window, where the stranger had been wont to work, Cuss had hit almost at once on three big books in manuscript labeled "Diary."

"Diary!" said Cuss, putting the three books on the table. "Now, at any rate, we shall learn something." The vicar stood with his hands on the table.

"Diary," repeated Cuss, sitting down, putting two volumes to support the third, and opening it. "H'm no name on the fly leaf. Bother! ... Cipher. And figures."

The vicar came around to look over his shoulder. Cuss turned the pages over with a face suddenly dis-

appointed. "I'm-dear me! It's all cipher, Bunting." "There are no diagrams?" asked Mr. Bunting. "No illustrations throwing light----"

"See for yourself," said Mr. Cuss. "Some of it's mathematical, and some of it's Russian or some such language (to judge by the letters), and some of it's Greek. Now the Greek I thought you-"

"Of course," said Mr. Bunting, taking out and wiping his spectacles, and feeling suddenly very uncomfortable—for he had no Greek left in his mind worth talking about. "Yes—the Greek, of course, may furnish a clue."

"I'll find you a place."

"I'd rather glance through the volumes first," said Mr. Bunting, still wiping. "A general impression first, Cuss, and *then*, you know, we can go looking for clues."

He coughed, put on his glasses, arranged them fas-

tidiously, coughed again, and wished something would happen to avert the seemingly inevitable exposure. Then he took the volume Cuss handed him in a leisurely manner. And then something did happen.

The door opened suddenly.

Both men started violently, looked round, and were relieved to see a sporadically rosy face beneath a furry silk hat. "Tap?" asked the face, and stood staring.

"No," said both gentlemen at once.

"Over the other side, my man," said Mr. Bunting. "And please shut that door," said Mr. Cuss irritably.

"All right," said the intruder, as it seemed in a low voice, curiously different from the huskiness of its first inquiry. "Right you are," said the intruder in the former voice. "Stand clear," and he vanished and closed the door.

"A sailor, I should judge," said Mr. Bunting. "Amusing fellows they are. Stand clear, indeed. A nautical term, referring to his getting back out of the room, I suppose."

"I dare say so," said Cuss. "My nerves are all loose to-day. It quite made me jump-the door opening like that."

Mr. Bunting smiled as if he had not jumped. "And now," he said with a sigh, "these books."

"One minute," said Cuss, and went and locked the door. "Now I think we are safe from interruption." Some one sniffed as he did so.

"One thing is indisputable," said Bunting, drawing up a chair next to that of Cuss. "There certainly have been very strange things happen in Iping during the last few days—very strange. I cannot, of course, believe in this abourd invisibility storv—"

"It's incredible," said Cuss, "incredible. But the fact remains that I saw—I certainly saw right down his sleeve—..."

"But did you—are you sure . . . Suppose a mirror for instance. . . . Hallucinations are so easily produced. I don't know if you have ever seen a really good conjurer—..."

"I won't argue again," said Cuss. "We've thrashed that out, Bunting. And just now there's these books ... Ah! here's some of what I take to be Greek! Greek letters certainly."

He pointed to the middle of the page. Mr. Bunting flushed slightly, and brought his face nearer, apparently finding some difficulty with his glasses. The little man's Greek was of the flimsiest, and he firmly believed that every one outside the Clurch credited him with a knowhedge of Greek and Hebrew originals. And now— Should he confess? Should he vamp? Suddenly he became aware of a strange feeling at the nape of his neck. He tried to move his head, and encountered an immovable resistance.

The feeling was a curious pressure—the grip of a heavy, firm hand, and it bore his chin irresistibly to the table. "Don't move, little men," whispered a voice, "or I'll brain you both!"

He looked into the face of Cuss, close to his own, and saw a horrified reflection of his own sickly astonishment.

"I'm sorry to handle you roughly," said the Voice, "but it's unavoidable." "Since when did you learn to pry into an investigator's private memoranda?" continued the Voice; two chins struck the table simultaneously, and two sets of teeth rattled.

"Since when did you learn to invade the private rooms of a man in misfortune?" and the concussion was repeated.

"Where have they put my clothes?

"Listen," said the Voice. "The windows are fastened, and I've taken the key out of the door. I am a fairly strong man, and I have the poker handy—besides being invisible. There's not the slightest doubt that I could kill you both and get away quite easily if I wanted to—do you understand? Very well. If I let you go, will you promise not to try any nonsense, and do what I tell you?"

The vicar and the doctor looked at one another, and the doctor pulled a face. "Yes," said Mr. Bunting, and the doctor repeated it. Then the pressure on the necks relaxed, and the doctor and vicar sat up, both very red in the face, and wriggling their heads.

"Please keep sitting where you are," said the Invisible Man. "Here's the poker, you see.

"When I came into this room," continued the Invisible Man, after presenting the poker to the tip of the nose of each of his visitors. "I did not expect to find it occupied; and I expected to find, in addition to my books of memoranda, an outfit of clothing. Where is it? No-don't rise. I can see it's gone. Now just at present, though the days are quite warm enough for an invisible man to run about stark—the evenings are chilly. I want clothing—and other accomodation. And I must also have those three books."

#### CHAPTER XII

#### The Invisible Man Loses His Temper

T is unavoidable that at this point the narrative should break off again, for a certain very painful reason that will presently be apparent. And while three things were going on in the parlor, and while Mr. Huizter was watching Mr. Marvel smoking his pipe against the gate, not a dozen yards away were Mr. Hall and Teddy Henfrey discussing in a state of cloudy puzzlement the one Iping topic.

Suddenly there came a violent thud against the door of the parlor, a sharp cry, and then-silence.

"Hul-lo !" said Teddy Henfrey.

"Hul-lo!" from the tap.

Mr. Hall took things in slowly but surely. "That's ain't right," he said, and came round from behind the bar towards the parlor door.

He and Teddy approached the door together, with intent faces. Their eyes considered. "Summat wrong," said Hall, and Henfrey nodded agreement. Whiffs of an unpleasant chemical odor met them, and there was a muffled sound of conversation, very rapid and subdued.

"You all raight thur?" asked Hall, rapping.

The muttered conversation ceased abruptly, for a moment silence, then the conversation was resumed in hissing whispers, then a sharp cry of "No! no you don't!" There came a sudden struggle. Silence again. "What the dooce!" exclaimed Henfrey sotto voce. "You-all-raight-thur?" asked Mr. Hall sharply again.

The vicar's voice answered with a curious jerking intonation. "Quite ri-ight. Please don't-interrupt."

"Odd !" said Mr. Henfrey.

"Odd !" said Mr. Hall.

"Says, 'Don't interrupt,' " said Henfrey.

"I heerd'n," said Hall.

"And a sniff," said Henfrey.

They remained listening. The conversation was rapid and subdued. "I can't," said Mr. Bunting, his voice rising; "I tell you, sir, I will not."

"What was that?" asked Henfrey.

"Says he wi' nart," said Hall. "Warn't speakin' to us, wuz he?"

"Disgraceful!" said Mr. Bunting within.

"'Disgraceful,'" said Mr. Henfrey. "I heard it -distinct."

"Who's that speaking now?" asked Henfrey.

"Mr. Cuss, I s'pose," said Hall. "Can you hearanything?"

Silence. The sounds within indistinct and perplexing.

"Sounds like throwing the tablecloth about," said Hall.

Mrs. Hall appeared behind the bar. Hall made gestures of silence and invitation. This roused Mrs. Hall's wifely opposition.

"What yer listenin' there for, Hall?" she asked. "Ain't you nothin' better to do-busy day like this?"

Hall tried to convey everything by grimaces and dumb show, but Mrs. Hall was obdurate. She raised her voice. So Hall and Henfrey, rather crestfallen, tiptoed back to the bar gesticulating, to explain to her.

At first she refused to see anything in what they had heard at all. Then she insisted on Hall keeping silence, while Henfrey told her his story. She was inclined to think the whole business nonsense—perhaps they were just moving the furniture about.

"I heerd'n say 'disgraceful'; that I did," said Hall.

"I heard that, Mis' Hall," said Henfrey.

"Like as not," began Mrs. Hall.

"Hsh !' said Mr. Teddy Henfrey. "Didn't I hear the window ?"

"What window?" asked Mrs. Hall.

"Parlor window," said Henfrey.

Every one stood listening intently. Mrs. Hall's eyes, directed straight before her, saw, without seeing, the brilliant oblong of the inn door, the road, white and vivid, and Huxter's door opened, and Huxter appeared, eyes staring with excitement, arms gesticulating.

"Yap!" cried Huxter. "Stop thief!" and he ran obliquely across the oblong towards the yard gates and vanished.

Simultaneously came a tumult from the parlor, and a sound of windows being closed.

Hall, Henfrey, and the human contents of the tap rushed out at once pell-mell into the street. They saw some one whisk round the corner towards the down road, and Mr. Huster executing a complicated leap in the air that ended on his face and shoulder. Down the street people were standing astonished or running towards them.

Mr. Huxter was stunned. Henfrey stopped to discover this, but Hall and the two laborers from the tap rushed at once to the corner, shouting incoherent things, and saw Mr. Marvel vanishing by the corner of the church wall. They appear to have jumped to the impossible conclusion that this was the Invisible Man suddenly become visible, and set off at once along the lane of pursuit. But Hall had hardly run a dozen yards before he gave a loud shout of astonishment and went flying headlong sideways, clutching one of the laborers and bringing him to the ground. He had been charged just as one charges a man at football. The second laborer came round in a circle, stared, and conceiving that Hall had tumbled over of his own accord, turned to resume the pursuit, only to be tripped by the ankle just as Huxter had been. Then as the first laborer struggled to his feet he was knocked sideways by a blow that might have felled an ox.

As he went down, the rush from the direction of the village green came round the corner. The first to appear was the proprietor of the cocoanut-shy, a burly man in a blue jersey. He was astonished to see the lane empty save for three men sprawling absurdly on the ground. And then something happened to his rearmost foot, and he went headlong and rolled sideways just in time to snare the feet of his brother and partner, following headlong. The two were then kicked, knelt on, fallen over, and cursed by quite a number of overhasty people.

N OW, when Hall and Henfrey and the laborers ran out of the house, Mrs. Hall, who had been discipliend by years of experience, remained in the bar next the till. And suddenly the parlor door was opened, and Mr. Cuss appeared, and, without glancing at her, rushed at once down the steps towards the corner. "Hold him!" he cried, "don't let him drop that parcel! You can see him so long as he holds the parcel."

He knew nothing of the existence of Marvel. for the Invisible Man had handed over the books and bundle in the yard. The face of Mr. Cuss was angry and resolute, but his costume was defective—a sort of limp, white kill that could only have passed muster in Greece. "Hold him!" he bawled. "He's got my trousers I—and every stitch of the vicar's clothes!"

"Tend to him in a minute!" he cried to Henfrey as he passed the prostrate Huxter, and coming round the corner to join the tunuit was promptly knocked off his feet into an indecorous sprawl. Somebody in full flight trod heavily on his finger. He yelled, struggled to regain his feet, was knocked against and thrown on all fours again, and became aware that he was involved not in a capture but in a rout. Every one was running back to the village. He rose again, and was hit severely behind the ear. He staggered, and set off back to the "Coach and Horses" forthwith, leaping over the deserted Huxter, who was now sitting up, on his way.

Behind him, as he was half-way up the inn steps, he heard a sudden yell of rage, rising sharply out of the confusion of cries, and a sounding smack in some one's face. He recognized the voice as that of the Invisible Man, and the note was that of a man suddenly infuriated by a painful blow.

In another moment Mr. Cuss was back in the parlor. "He's coming back, Bunting!" he said, rushing in. "Save yourself!"

Mr. Bunting was standing in the window, engaged in an attempt to clothe himself in the hearthrug and a *West Survey Gazette*.

"Who's coming?" he said, so startled that his costume narrowly escaped disintegration.

"Invisible Man!" said Cuss, and rushed to the window. "We'd better clear out from here. He's fighting mad! Mad!"

In another moment he was out in the yard.

"Good heavers!" said Mr. Bunting, hesitating between two horrible alternatives. He heard a frightful struggle in the passage of the inn, and his decision was made. He clambered out of the window, adjusted his costume hastily, and fled up the village as fast as his fat little legs would carry him.

From the moment when the Invisible Man screamed with rage and Mr. Bunting made his memorable flight up the village, it became impossible to give a consecutive account of affairs in Iping. Possibly the Invisible Man's original intention was simply to cover Marvel's retreat with the clothes and books. But his temper, at no time very good, seems to have gone completely at some chance blow, and forthwith he set to smitting and overthrowing for the mere satisfaction of hurting.

You musi figure the street full of running figures, of doors slamming, and fights for hiding-places. You must figure the tunnult suddenly striking on the unstable equilibrium of old Fletcher's plank and two chairs with cataclysmal results. You must figure an appalled couple caught dismally in a swing. And then the whole tunultuous rush has passed, and the Jipin gstreet, with its gauds and flags, is deserted, save for the still raging unseen, and littered with cocon-nuts, overthrown canvas screens, and the scattered stock-in-trade of a sweetstuff stall. Everywhere there is a sound of closing shutters and shooting bolts, and the only visible humanity is an occasional flitting eye under a raised eyebrow in the corner of a window-nae.

The Invisible Man amused himself for a little while by breaking all the windows in the "Coach and Horses," and then he thrust a street lamp through the parlor window of Mrs. Grogram. He it must have been who cut the telegraph wire to Adderdean just beyond Higgins's cottage on the Adderdean Road. And after that, as his peculiar qualities allowed, he passed out of human perceptions altogether, and he was neither heard, seen, nor felt in Fing any more. He vanished absolutely.

But it was the best part of two hours before any human being ventured out again into the desolation of Iping Street.

#### CHAPTER XIII

#### Mr. Marvel Discusses His Resignation

HEN the dusk was gathering, and Iping was just beginning to peep timorously forth again upon the shattered wreckage of its Bank Holiday, a short, thickset man in a shabby silk hat was marching painfully through the twilight behind the beechwoods on the road to Bramblehurst. He carried three books, bound together by some sort of ornamental elastic ligature, and a bundle wrapped in a blue tablecloth. His rubicund face expressed consternation and fatigue, he appeared to be in a spasmolic sort of hurry. He was accompanied by a Voice other than his own, and ever and again he winced under the touch of unseen hands.

"If you give me the slip again," said the Voice; "if you attempt to give me the slip again-"

"Lord!" said Mr. Marvel. "That shoulder's a mass of bruises as it is."

"On my honor," said the Voice, "I will kill you."

"I didn't try to give you the slip," said Marvel, in a voice that was not far remote from tears. "I swear I didn't. I didn't know the blessed turning, that was all! How the devil was I to know the blessed turning? As is it, Tve been knocked about—""

"You'll get knocked about a great deal more if you don't mind," said the Voice, and Mr. Marvel abruptly became silent. He blew out his cheeks, and his eyes were eloquent of despair.

"It's had enough to let these floundering yokels explode my little secret, without your cutting off with my books. It's lucky for some of them they cut and ran when they did! Here am I... No one knew I was invisible! And now what am I to do?"

"What am I to do?" asked Marvel, sotto voce.

"It's all about. It will be in the papers! Everybody will be looking for me. Every one on their guard----"

The Voice broke off into vivid curses and ceased. The despair of Mr. Marvel's face deepened, and his pace slackened.

"Go on," said the Voice.

Mr. Marvel's face assumed a grayish tint between the ruddier patches.

"Don't drop those books, stupid !" said the Voice sharply.

"The fact is," said the Voice, "I shall have to make use of you. . . You're a poor tool, but I must."

"I'm a miscrable tool," said Marvel.

"You are," said the Voice.

"I'm the worst possible tool you could have," said Marvel.

"I'm not strong," he said, after a discouraging silence. "I'm not over strong," he repeated.

"No?"

"And my heart's weak. That little business—I pulled it through, of course. But, bless you! I could have dropped."

"Well?"

"I haven't the nerve and strength for the sort of thing you want-----"

"I'll stimulate you."

"I wish you wouldn't. I wouldn't like to mess up your plans, you know. But I might. Out of sheer funk and misery——"

"You'd better not," said the Voice, with quiet emphasis.

"I wish I was dead," said Marvel.

"It ain't justice," he said. "You must admit . . . It seems to me I've a perfect right----" "Get on," said the Voice.

Mr. Marvel mended his pace, and for a time they went in silence again.

"It's devilish hard," said Mr. Marvel.

This was quite ineffectual. He tried another tack. "What do I make by it?" he began, again in a tone of unendurable wrong.

"Oh! shut upt' said the Voice, with sudden amazing vigor. "I'll see to you all right. You do what you're told. You'll do it all right. You're a fool and all that, but you'll do----"

"I tell you, sir, I'm not the man for it. Respectfully --but it is so-----"

"If you don't shut up I shall twist your wrist again," said the Invisible Man. "I want to think."

Presently two oblongs of yellow light appeared through the trees, and the square tower of a church loomed through the gloaming. "I shall keep my hand on your shoulder," said the Voice, "all through this village. Go straight through and try no foolery. It will be the worse for you if you do."

"I know that," sighed Mr. Marvel, "I know all that."

The unhappy-looking figure in the obsolete silk hat passed up the street of the little village with his burdens, and vanished into the gathering darkness beyond the lights of the windows.

#### CHAPTER XIV

#### At Port Stowe

The Velock the next morning found Mr. Marvel, unshaven, dirty, and travel-stained, sitting with his hands deep in his pockets, looking very weary, nervous, and uncomfortable, and inflating his checks at frequent intervals, on the bench outside a little in no the outskirts of Port Stowe. Beside thim were the books, but now they were tied with string. The bundle had been abandoned in the pinewoods beyond Bramblehurst, in accordance with a change in the plans of the Invisible Man. Mr. Marvel sat on the bench, and although no one took the slightest notice of him, his agitation remained at fever heat. His hands would go ever and again to his various pockets with a curious nervous fumbling.

When he had been sitting for the best part of an hour, however, an elderly mariner, carrying a newspaper, came out of the inn and sat down beside him.

"Pleasant day," said the mariner.

Mr. Marvel glanced about him with something very like terror. "Very," he said.

"Just seasonable weather for the time of year," said the mariner, taking no denial.

"Quite," said Mr. Marvel.

The mariner produced a toothpick, and (saving his regard) was engrossed thereby for some minutes. His eyes meanwhile were at liberty to examine Mr. Marvel's dusty figure and the books beside him. As he had approached Mr. Marvel he had heard a sound like the dropping of coins into a pocket. He was struck by the contrast of Mr. Marvel's appearance with this suggestion of opulence. Thence his mind wandered back again to a topic that had taken a curiously firm hold of his imagination.

"Books?" he said suddenly, noisily finishing with the toothpick.

Mr. Marvel started and looked at them. "Oh, yes," he said. "Yes, they're books."

"There's some ex-traordinary things in books," said the mariner.

"I believe you," said Mr. Marvel.

"And some extra-ordinary things out of 'em." said the mariner.

"True, likewise," said Mr. Marvel. He eyed his interlocutor, and then glanced about him.

"There's some extra-ordinary things in newspapers, for example," said the mariner.

"There are."

"In this newspaper," said the mariner.

"Ah !" said Mr. Marvel.

"There's a story," said the mariner, fixing Mr. Marvel with an eye that was firm and deliberate; "there's a story about an Invisible Man, for instance."

Mr. Marvel pulled his mouth askew and scratched his cheek and felt his ears glowing. "What will they be writing next?" he asked faintly. "Ostria or America?" "Neither," said the mariner. "Here."

"Lord!" said Mr. Marvel, staring.

"When I say here," said the mariner to Mr. Marvel's intense relief, "I don't, of course, mean here in this place. I mean hereabouts."

"An Invisible Man!" said Mr. Marvel. "And what's he been up to?

"Everything," said the mariner, controlling Marvel with his eye, and then amplifying, "every-blessed -thing.'

"I ain't seen a paper these four days," said Marvel. "Iping's the place he started at," said the mariner.

"In-deed !" said Mr. Marvel.

"He started there. And where he came from nobody don't seem to know. Here it is: 'Pe-culiar Story from Iping.' And it says in this paper that the evidence is extraordinary strong, extraordinary."

"Lord !" said Mr. Marvel.

"But then it's a extra-ordinary story. There is a clergyman and a medical gent witnesses-saw 'im all right and proper-or leastways, didn't see him. He was staving, it says, at the 'Coach an' Horses,' and no one don't seem to have been aware of his misfortune, it says, aware of his misfortune, until in an Altercation in the inn, it says, his bandages on his head was torn off. It was then ob-served that his head was invisible. Attempts were At Once made to secure him, but, casting off his garments, it says, he succeeded in escaping, but not until after a desperate struggle, in which he had inflicted serious injuries, it says, on our worthy and able constable, Mr. J. A. Jaffers. Pretty straight story, eh? Names and everything."

"Lord!" said Mr. Marvel, looking nervously about him, trying to count the money in his pockets by his unaided sense of touch, and full of a strange and novel idea. "It sounds most astonishing."

"Don't it? Extra-ordinary, I call it. Never heard tell of Invisible Men before, I haven't, but nowadays one hears such a lot of extra-ordinary things-that it's---"

"That all he did?" asked Marvel, trying to seem at his ease.

"It's enough, ain't it ?" said the mariner.

"Didn't go back by any chance?" asked Marvel. "Just escaped, and that's all, eh?"

"All !" said the mariner. "Why !-ain't it enough ?" "Ouite enough," said Marvel.

"I should think it was enough," said the mariner. "I should think it was enough."

"He didn't have any pals-it don't say he had any pals, does it?" asked Mr. Marvel, anxious,

"Ain't one of a sort enough for you?" asked the mariner. "No, thank heaven, as one might say, he didn't."

■ E nodded his head slowly. "It makes me regular H uncomfortable, the bare thought of that chap running about the country !---- He is at present at large, and from certain evidence, it is supposed that he has-taken-took. I suppose they mean-the road to Port Stowe. You see we're right in it! None of your American wonders this time. And just think of the things he might do! Where'd you be if he took a drop over and above, and had a fancy to go for you? Suppose he wants to rob-who can prevent him? He can trespass, he can burgle, he can walk through a cordon of policemen as easy as me or you could give the slip to a blind man! Easier! For these here blind chaps hear uncommon sharp, I'm told. And wherever there was liquor he fancied-""

"He's got a tremenjous advantage, certainly," said Mr. Marvel. "And-well . . ."

"You're right," said the mariner; "he has,"

All this time Mr. Marvel had been glancing about him intently, listening for faint footfalls, trying to detect imperceptible movements. He seemed on the point of some great resolution; he coughed behind his hand.

He looked about him again-listened-bent towards the mariner, and lowered his voice.

"The fact of it is, I happen-to know just a thing or two about this Invisible Man. From private sources. "Oh !" said the mariner. "You?"

"Yes," said Mr. Marvel-"me."

"Indeed !" said the mariner. "And may I ask-----?"

"You'll be astonished," said Mr. Marvel, behind his hand. "It's tremenjous."

"Indeed !" said the mariner.

"The fact is," began Mr. Marvel eagerly, in a confidential undertone. Suddenly his expression changed marvelously. "Ow!" he said. He rose stiffly in his seat; his face was eloquent of physical suffering. "Wow!" he said.

"What's up?" said the mariner, concerned.

"Toothache," said Mr. Marvel, and put his hand to his ear. He caught hold of his books. "I must be getting on, I think," he said. He edged in a curious way along the seat away from his interlocutor.

"But you was just a-going to tell me about this here Invisible Man," protested the mariner.

Mr. Marvel seemed to consult with himself.

"Hoax," said a Voice.

"It's a hoax," said Mr. Marvel.

"But it's in the paper," said the mariner.

"Hoax all the same," said Marvel. "I know the chap that started the lie. There ain't no Invisible Man whatsoever. . . . Blimey."

"But how 'bout this paper? D'you mean to say-?" "Not a word of it," said Mr. Marvel stoutly.

The mariner stared, paper in hand. Mr. Marvel jerkily faced about. "Wait a bit," said the mariner, rising and speaking slowly. "D'you mean to say—?" "I do." said Mr. Marvel.

"Then why did you let me go on and tell you all this blarsted stuff, then? What d'yer mean by letting a

man make a fool of himself like that for, ch?" Mr. Marvel blew out his cheeks. The mariner was suddenly very red indeed, he clenched his hands. "I

been talking here this ten minutes," he said; "and you, you little pot-bellied, leathery-faced son of an old boot, couldn't have the elementary manners——"

"Don't you come bandying words with me," said Mr. Marvel.

"Bandying words! I've a jolly good mind----"

"Come up," said a Voice, and Mr. Marvel was suddenly whirled about and started marching off in a curious, spasmodic manuer." "Void better move on," said the mariner. "Who's moving on?" said Mr. Marvel. He was receding obliquely with a curious, hurrying gait, with occasional violent jerks forward. Some way along the road he began a muttered monologue, protests and recriminations.

"Silly devil," said the mariner, legs wide apart, arms akimbo, watching the receding figure. "I'll show you, you silly fool, hoaxing me! It's here in the paper !"

Mr. Marvel retorted incoherently, and receding was hidden by a bend in the road; but the mariner still stood magnificent in the midst of the way, until the approach of a butcher's cart dislodged him. Then he turned himself towards Port Stowe. "Full of extra-ordinary fools," he said softly to himself. "Just to take me down a bit—that was his silly game.... It's on the paper!"

And there was another extraordinary thing he was presently to hear that had happened quite close to him. And that was a vision of a "fist full of money" (no less) traveling without visible agency, along by the wall at the corner of St. Michael's Lane. A brother mariner had seen this wonderful sight that very morning. If had snatched the money forthwith, and had been knocked headlong, and when he had got to his feet the butterfly money had vanished. Our mariner was in the mood to believe anything, he declared, but that was a bit too stiff. Afterwards, however, he began to think things over.

The story of the flying money was true. And all about that neighborhood, even from the august London and County Banking Company, from the tills of shops and inns—doors standing that sumny weather entirely open—money had been quietly and dexterously making off that day in handfuls and rouleaux, floating quietly along by walls and shady places, dodging quickly from the approaching eyes of men. And it had, though no man had traced it, invariably ended its mysterious flight in the pocket of that agritated genelman in the obsolete silk hat, sitting outside the little inn on the outskirts of Port Stowe.

It was ten days after—and indeed only when the Burdock story was already old—that the mariner collated these facts and began to understand how near he had been to the wonderful Invisible Man.

#### CHAPTER XV

#### The Man Who Was Running

N the early evening time Dr. Kemp was sitting in his study in the belvedere on the hill overlooking Burdock. It was a pleasant little room, with three windows-north, west, and south-and bookshelves crowded with books and scientific publications, and a broad writing-table, and, under the north window, a microscope, glass slips, minute instruments, some cultures, and scattered bottles of reagents. Dr. Kemp's solar lamp was lit, albeit the sky was still bright with the sunset light, and his blinds were up because there was no offense of peering outsiders to require them pulled down. Dr. Kemp was a tall and slender young man, with flaxen hair and a mustache almost white. and the work he was upon would earn him, he hoped. the fellowship of the Royal Society, so highly did he think of it.

And his eye, presently wandering from his work, caught the sunset blazing at the back of the hill that is over against his own. For a minute, perhaps, he sat, pen in mouth, admiring the rich golden color above the crest, and then his attention was attracted by the little figure of a man, inky black, running over the hill brow towards him. He was a bortish little fellow, and he wore a high hat, and he was running so fast that his legs verily twinkled.

"Another of those asses," said Dr. Kemp, "Like that ass who ran into me this morning round a corner, with his 'Visible Man a-corning, sit' I can't imagine what possesses people. One might think we were in the thirteenth century."

He got up, went to the window, and stared at the dusky hillside and the dark little figure tearing down it. "He seems in a confounded hurry," said Dr. Kemp, "but he doesn't seem to be getting on. If his pockets were full of lead, he couldn't run heavier.

"Spurted, sir !" said Dr. Kemp.

In another moment the higher of the villas that had clambered up the hill from Burdock had occulted the running figure. He was visible again for a moment, and again and then again, three times between the three detached houses that came next, and then the terrace hid him.

"Asses !" said Dr. Kemp, swinging round on his heel and walking back to his writing-table.

But those who saw the fugitive nearer, and perceived the abject terror on his perspring face, being themselves in the open roadway, did not share in the doctor's contempt. By the man pounded, and as he ran he chinked like a well-filled purse that is tossed to and fro. If e looked neither to the right nor left, but his dilated eyes stared straight down hill to where the lamps were being lit and the people were crowded in the street. And his il-shaped nouth fell apart, and a glary foam lay on his lips, and his breath came hoarse and noisy. All he passed stopped and began staring up the road and down, and interrogating one another with an inkling of discomfort for the reason of his haste.

And then presently, far up the hill, a dog playing in the road yelped and ran under a gate, and as they still wondered, something—a wind—a pad, pad, pad, a sound like a panting breathing, rushed by.

People screamed. People sprang off the pavement. It passed in shouts, it passed by instinct down the hill. They were shouting in the strete before Marvel was half-way there. They were bolting into houses and slamming the doors behind them, with the news. He heard it, and made one last desperate spurt. Fear came striding by, rushed ahead of him, and in a moment had seized the town.

"The Invisible Man is coming ! The Invisible Man !"

#### CHAPTER XVI

#### In the "Jolly Cricketers"

THE "Jolly Cricketers" is just at the bottom of the hill, where the tram-lines begin. The barman leant his fat red arms on the counter and talked of horses with an anamtic cabman, while a blackbearded man in gray snapped up biscuit and cheese, drank Burton, and conversed in American with a policeman off duty.

"What's the shouting about?" said the anæmic cabman, going off at a tangent, trying to see up the hill over the dirty yellow blind in the low window of the inn. Somebody ran by outside.

"Fire, perhaps," said the barman.

Footsteps approached, running heavily, the door was pushed open violently, and Marvel, weeping and disheveled, his hat gone, the neck of his coat torn open, rushed in, made a convulsive turn, and attempted to shut the door. It was held half open by a strap.

"Coming !" he bawled, his voice shricking with terror. "He's coming. The 'Nvisible Man! After me. For Gawd's sake. 'Elp! 'Elp! 'Elp!"

"Shut the doors," said the policeman. "Who's coming? What's the row?" He went to the door, released the strap, and it slammed. The American closed the other door.

"Lemme go inside," said Marvel, staggering and weeping, but still clutching the books. "Lemme go in side. Lock me in—somewhere. I tell you he's after me. I give him the slip. He said he'd kill me, and he will."

"You're safe," said the man with the black beard. "The door's shut. What's it all about?"

"Lemme go inside," said Marvel, and shrieked aloud as a blow suddenly made the fastened door shiver, and was followed by a hurried rapping and a shouting outside.

"Hullo," cried the policeman, "who's there?"

Mr. Marvel began to make frantic dives at panels that looked like doors. "He'll kill me—he's got a knife or something. For Gawd's sake—\_!"

"Here you are," said the barman. "Come in here." And he held up the flap of the bar.

Mr. Marvel rushed behind the bar as the summons

outside was repeated. "Don't open the door," he screamed. "Please don't open the door. Where shall I hide?"

"This, this Invisible Man, then?" asked the man with the black beard with one hand behind him. "I guess it's about time we saw him."

The window of the inn was suddenly smashed in, and there was a screaming and running to and fro in the street. The policeman had been standing on the settee staring out, craning to see who was at the door. He got down with raised eyebrows. "It's that," he said. The barman stood in front of the bar-parlor door, which was now locked on Mr. Marvel, stared at the smashed window, and came round to the two other men.

Everything was suddenly quiet. "I wish I had my truncheon," said the policeman, going irresolutely to the door. "Once we open, in he comes. There's no stopping him."

"Don't you be in too much hurry about that door," said the anæmic cabman anxiously.

"Draw the bolts," said the man with the black beard, "and if he comes . . ." He showed a revolver in his hand.

"That won't do," said the policeman, "that's murder."

"I know what country I'm in," said the man with the beard. "I'm going to let off at his legs. Draw the bolts."

"Not with that thing going off behind me," said the barman, craning over the blind.

"Very well," said the man with the black beard, and stooping down, revolver ready, drew them himself. Barman, cabman, and policeman faced about.

"Come in," said the bearded man in an undertone, standing back and facing the unbolted doors with his pistol behind him. No one came in, the door remained closed. Five minutes afterwards, when a second cabman pushed his head in cautiously, they were still waiting, and an anxious face peered out of the bar-parlor and supplied information.

"Are all the doors of the house shut?" asked Marvel. "He's going round—prowling round. He's as artful as the devil."

"Good Lord!" said the burly barman. "There's the back! Just watch them doors! I say——!" He looked about him helplessly. The bar-parlor door slammed and they heard the key turn. "There's the yard door and the private door. The yard door——"

He rushed out of the bar.

In a minute he reappeared with a carving knife in his hand. "The yard door was open," he said, and his fat underlip dropped.

"He may be in the house now," said the first cabman.

"He's not in the kitchen," said the barman. "There's two women there, and I've stabbed every inch of it with this little beef slicer. And they don't think he's come in. They have noticed—-"

"Have you fastened it?" asked the first cabman.

"I'm out o' frocks," said the barman.

The man with the beard replaced his revolver. And even as he did so the flap of the bar was shut down and the bolt clicked, and then with a tremendous thud the catch of the door snapped and the bar-parlor door burst open. They heard Marvel squeal like a caught levert, and forthwith they were clambering over the bar to his rescue. The bearded man's revolver cracked, and the looking-glass at the back of the parlor stared and came smashing and thinking down.

As the barman entered the room, he saw Marvel curiously crumpled up and struggling against the door that led to the yard and kitchen. The door flew open while the barman hesitated, and Marvel was lugged into the kitchen. There was a scream and a clatter of pans. Marvel, head down, and lugging back obstinately, was forced to the kitchen door, and the bolts were drawn.

The policeman, who had been trying to pass the barman, rushed in, followed by one of the cahmen, gripped the wrist of the invisible hand that collared Marvel, was hit in the face and went reeling back. The door opened, and Marvel made a frantic effort to obtain a lodgment belind it. Then the cahman dutched something.

"I got him," said the cabman.

The barman's red hands came clawing at the unseen. "Here he is!" said the barman.

Mr. Marvel, released, suddenly dropped to the ground, and made an attempt to craw behind the legs of the fighting men. The struggle blundered round the edge of the door. The voice of the Invisible Man was heard for the first time, yelling out sharply as the policeman trod on his fost flew round like fails. The cabman suddenly whooged and doubled up, kicked under the diaphragm. The doors into the bar-parlor from the kitchen slammel and covered Mr. Marvel's retreat. The men in the kitchen found themselves clutching at and struggling with empty air.

"Where's he gone?" cried the man with the beard. "Out?"

"This way," said the policeman, stepping into the yard and stopping.

A piece of tile whizzed by his head, and smashed among the crockery on the kitchen table.

"I'll show him," shouted the man with the black beard, and suddenly a steel harrel shone over the policeman's shoulder, and five bullets had followed one another into the twilight whence the missile had come. As he fired, the man with the beard moved his hand in a horizontal curve, so that his shots radiated out into the narrow yard like spokes from a wheel.

A silence followed. "Five cartridges," said the man with the black beard. "That's best of all. Four aces and the joker. Get a lantern, some one, and come and feel about for his body."

#### CHAPTER XVII

#### Dr. Kemp's Visitor

D<sup>R.</sup> KEMP had continued writing in his study until the shots aroused him. Crack, crack, crack, they came one after the other.

"Hullo!" said Dr. Kemp, putting his pen into his mouth again and listening. "Who's letting off revolvers in Burdock? What are the asses at now?"

He went to the south window, threw it up, and lean-

ing out stared down on the network of windows, beaded gas-lamps and shops with black interstices of roof and yard that made up the town at night. "Looks like a crowd down the hill," he said, "by "The Cricketers," und remained watching. Thence his yees wandered over the town to far away, where the ships' lights shone and the pier glowed—a little illuminated, faceted pavilion like a gen of yellow light. The moon in its first quarter hung over the westward hill, and the stars were clear and almost tropically bright.

After five minutes, during which his mind had traveled into a remote speculation of social conditions of the future, and lost itself at last over the time dimension, Dr. Kemp roused himself with a sigh, pulled down the window again, and returned to his writingdesk.

It must have been about an hour after this that the front door-bell rang. He had been writing slackly, and with intervals of abstraction, since the shots. He sat listening. He heard the servant answer the door, and waited for her feet on the staircase, but she did not come. "Wonder what that was?" said Dr. Kemp.

He tried to resume his work, failed, got up, went downstairs from his study to the landing, rang, and called over the balustrade to the housemaid, as she appeared in the hall below. "Was that a letter?" he saked.

"Only a runaway ring, sir," she answered.

"I'm restless to-night," he said to himself. He went back to his study, and this time attacked his work resolutely.

In a little while he was hard at work again, and the only sounds in the room were the ticking of the clock and the subdued shrillness of his quil, hurrying in the very center of the circle of light his lampshade threw on his table.

It was two o'clock before Dr. Kemp had finished his work for the night. He rose, yawned, and went upstairs to bed. He had already removed his coat and vest, when he noticed that he was thirsty. He took a candle and went down to the dining-room in search of a siphon and whisky.

Dr. Kemp's scientific pursuits had made him a very observant man, and as he recrossed the hall he noticed a dark spot on the linoleum near the mat at the foot of the stairs. He went on upstairs, and then it suddenly occurred to him to ask himself what the spot on the linoleum might be. Apparently some sub-conscious element was at work. At any rate, he turned with his burden, went back to the hall, put down the siphon and whisky, and, bending down, touched the spot. Without any great surprise, he found it had the stickiness and color of drying blood.

He took up his burden again, and returned upstairs looking about him and trying to account for the blood spot. On the landing he saw something, and stopped astonished. The door-handle of his room was bloodstained.

He looked at his own Band. It was quite clean, and then he remembered that the door of his room had been open when he came down from his study, and that consequently he had not touched the handle at all. He went straight into his own room, his face quite calmperhaps a trifle more resolute than usual. His glance, wandering inquisitively, fell on the bed. On the counterpane was a mess of blood, and the sheet had been torn. He had not noticed this when he had entered the room before, because then he had walked straight to the dressing-table. On the farther side the bed-clothes were depressed as if some one had recently been sitting there.

Then he had an odd impression that he had heard a low voice say, "Good heavens!—Kemp!" But Dr. Kemp was no believer in voices.

He stood staring at the tumbled sheets. Was that really a voice? He looked about again, but noticed nothing further than the disordered and blood-stained bed. Then he disinityl heard a movement across the room, near the washhand-stand. All men, however highly educated, retain some superstitious inklings. The feeling, that is called "eeric," came upon him. He closed the door of the room, came forward to the dressingtable, and put down his burden. Suddenly, with a start, he perceived a coiled and blood-stained bandage of linen rag hanging in mid-air, between him and the washhandstand.

He stared at this in amazement. It was an empty bandage—a bandage properly tied, but quite empty. He would have advanced to grasp it, but a touch arrested him and a voice speaking quite close to him.

"Kemp!" said the Voice.

"Eh?" said Kemp, with his mouth open.

"Keep your nerve," said the Voice. "I'm an Invisible Man."

Kemp made no answer for a space, simply stared at the bandage. "Invisible Man?" he said.

"I am an Invisible Man," repeated the Voice.

The story he had been active to ridicule only that morning rushed through Kemp's brain. He does not appear to have been either very much frightened or very greatly surprised at the moment. Realization came later.

"I thought it was all a lie," he said. The thought uppermost in his mind was the reiterated arguments of the morning. "Have you a bandage on?" he asked.

"Yes," said the Invisible Man.

"Oh!" said Kemp, and then roused himself. "I say!" he said. "But this is nonsense. It's some trick." He stepped forward suddenly and his hand extended towards the bandage met invisible fingers.

H E recoiled at the touch, and his color changed.

"Keep steady, Kemp, for God's sake! I want help badly. Stop!"

The hand gripped his arm. He struck at it. "Kemp!" cried the Voice. "Kemp, keep steady!" and the grip tightened.

A frantic desire to free himself took possession of Kemp. The hand of the bandaged arm gripped his shoulder, and he was suddenly tripped and flung backwards upon the bed. He opened his mouth to shout, and the corner of the sheet was thrust between his teeth. The Invisible Man had him down grimly, but his arms were free, and he struck and tried to kick savagely.

"Listen to reason, will you?" said the Invisible Man,

sticking to him in spite of a pounding in the ribs. "By heaven, you'll madden me in a minute!

"Lie still, you fool!" bawled the Invisible Man in Kemp's ear.

Kemp struggled for another moment, and then lay still.

"If you shout, I'll smash your face," said the Invisible Man, relieving his mouth. "I'm an Invisible Man. It is no foolishness and no magic. I am really an Invisible Man. And I want your help. I don't want to hurt you, but if you behave like a framitic rustie I must. Don't you remember me, Kemp? Griffin, of University College."

"Let me get up," said Kemp. "I'll stop where I am. And let me sit quiet for a minute."

He sat up and felt his neck.

"I am Griffin, of University College, and I have made myself invisible. I am just an ordinary man—a man you have known—made invisible."

"Griffin?" said Kemp.

"Griffin," answered the Voice. "A younger student than you were, almost an albino, six feet high, and broad—with a pink and white face and red eyes, who won the medal for chemistry."

"I'm confused," said Kemp. "My brain is rioting. What has this to do with Griffin?"

"I am Griffin.' '

Kemp thought. "It's horrible," he said. "But what deviltry must happen to make a man invisible?"

"It's no deviltry. It's a process, sane and intelligible enough-----"

"It's horrible !" sad Kemp. "How on earth----?"

"It's horrible enough. But I'm wounded and in pain, and tired . . . Great God! Kemp, you are a man. Take it steady. Give me some food and drink, and let me sit down here."

Kemp stared at the bandage as it moved across the room, then saw a basket chair dragged along the floor and come to rest near the bed. It creaked, and the seat was depressed a quarter of an inch or so. He rubbed his eyes and felt his neck again. "This beats ghosts," he said, and laughed stupidly.

"That's better. Thank heaven, you're getting sensible!"

"Or silly," said Kemp, and knuckled his eyes.

"Give me some whisky. I'm near dead."

"I didn't feel so. Where are you? If I get up shall I run into you? *There*! All right. Whisky.... Here. Where shall I give it you?"

The chair creaked, and Kemp felt the glass drawn away from him. He let it go by an effort; his instinct was all against it. It came to rest poised twenty inches above the front edge of the chair. He stared at it in infinite perplexity.

"This is-this must be-hypnotism. You must have suggested you are invisible."

"Nonsense!" said the Voice.

"It's frantic!"

"Listen to me."

"I demonstrated conclusively this morning," began Kemp, "that invisibility-----"

"Never mind what you've demonstrated! I'm starv-

ing," said the Voice, "and the night is chilly to a man without clothes."

"Food?" said Kemp.

The tumbler of whiskey tilted itself. "Yes," said the Invisible Man, rapping it down. "Have you got a dressing-gown?"

Kemp made some exclanation in an undertone. He walked to a wardrobe, and produced a robe of dingy scarlet, "This do?" he asked. It was taken from him. It hung himp for a moment in mid-air, fluttered weirdly, stood full and decorous buttoning itself, and sat down in his chair.

"Drawers, socks, slippers would be a comfort," said the Unseen curtly. "And food."

"Anything. But this is the insanest thing I was ever in, in my life!"

He turned out his drawers for the articles, and then went downstairs to ransack his larder. He came back with some cold cutlets and bread, pulled up a light table, and placed them before his guest.

"Never mind knives," said his visitor, and a cutlet hung in mid-air with a sound of gnawing.

"I always like to get something about me before I eat," said the Invisible Man, with a full mouth, eating greedily. "Queer fancy."

"I suppose that wrist is all right?" said Kemp.

"Trust me," said the Invisible Man.

"Of all the strange and wonderful-

"Exactly. But it's odd I should blunder into your house to get my bandaging. My first stroke of luck! Anyhow, I meant to sleep in this house to-night. You must stand that! It's a fithy nuisance, my blood showing, isn't it? Quite a clo to ver there. Gets visible as it coagulates, I see. It's only the living tissue I've changed, and only for as long as I'm alive. . . . I've been in the house three hours."

"But how's it done?" began Kemp, in a tone of exasperation. "Confound it! The whole business—it's unreasonable from beginning to end."

"Quite reasonable," said the Invisible Man; "perfectly reasonable."

He reached over and secured the whisky bottle. Kemp stared at the devouring dressing-gown. A ray of candle-light penetrating a torn patch in the right shoulder made a triangle of light under the left ribs.

"What were the shots?" he asked. "How did the shooting begin?"

"There was a fool of a man-a sort of confederate of mine, curse him!-who tried to steal my money. Has done so."

"Is he invisible, too?"

"No."

"Well?"

"Can't I have some more to eat before I tell all that? I'm hungry—in pain. And you want me to tell stories!"

Kemp got up. "You didn't do any shooting?" he asked.

"Not me," said the visitor. "Some fool I'd never seen fired at random. A lot of them got scared. They all got scared at me. Curse them! I say—I want more to eat than this, Kemp." "I'll see what there is more to eat downstairs," said Kemp. "Not much, I'm afraid."

After he had done eating—and he made a heavy meal—the Invisible Man demanded a cigar. He bit the end savagely, before Kemp could find a knife, and cursed when the outer leaf loosened.

It was strange to see him smoking: his mouth and throat, pharyux and nares, became visible as a sort of whirling smoke cast.

"This blessed gift of smoking," he said, and puffed vigorously. "I'm lucky to have fallen upon you, Kemp. You must help me. Fancy tumbling on you just now! I'm in a devilish scrape—I've been mad, I think. The things I have been through! But we will do things yet, let me tell you."

He helped himself to more whisky and soda. Kemp got up, looked about him, and fetched himself a glass from his spare room.

"It's wild-but I suppose I may drink."

"You haven't changed much, Kemp, these dozen years. You fair men don't. Cool and methodical. . . I must tell you. We will work together!"

"But how was it all done?" said Kemp, "and how did you get like this?"

"For God's sake let me smoke in peace for a little while, and then I will begin to tell you."

But the story was not told that night. The Invisible Man's wrist was growing painful; he was feverish, exhausted, and his mind came round to brood upon his chase down the hill and the struggle about the inn. He began his story and fell away from it. He spoke in fragments of Marvel, he smoked faster, his voice grew angry. Kemp tried to gather what he could.

"He was afraid of me—I could see he was afraid of me," said the Invisible Man many times over. "He meant to give me the slip—he was always casting about ! What a fool I was!

"The cur!

"I was furious. I should have killed him-"

"Where did you get the money?" asked Kemp abruptly.

The Invisible Man was silent for a space. "I can't tell you to-night."

He groaned suddenly and leaned forward, supporting his invisible head on invisible hands.

"Kemp," he said, "I've had no sleep for near three days, except a couple of dozes of an hour or so. I must sleep soon."

"Well, have my room-have this room."

"But how can I sleep? If I sleep—he will get away. Ugh! What does it matter?"

"What's the shot wound?" asked Kemp.

"Nothing-scratch and blood. Oh, God ! How I want sleep !"

"Why not?"

The Invisible Man appeared to be regarding Kemp. "Because I've a particular objection to being caught by my fellow-men," he said slowly.

Kemp started.

"Fool that I am!" said the Invisible Man, striking the table smartly. "I've put the idea into your head."

## THE BLUE DIMENSION By Francis Flagg

Author of "The Machine Man of Ardathia" and "Master Ants"



AM suspected of having made away with Doctor Crewe. Furthermore, my sanity is being questioned. That is all right; I can blame no one for holding to either or both suspicions. But, as a matter of fact,

I have not murdered my friend, nor am I insane. Listen to me patiently please, and I will do my best to tell you of the wonderful discovery of Doctor Crewe, and in what manner he came to disappear.

As you all know, Doctor Creive was sixty years of age, and a retired optometrist. He lived alone in this house with one servant and friend, myself. I am a man of thirty, young, strong. In a great many ways the Doctor treated me as a son. He paid me a libreal wage and made it possible for me to go to college. Sensible of the kindness he has shown me, I have hated to quit his service, even though graduated from the university for over a year and a half.

Doctor Crewe was a shy, retiring man with no friend, save myself, and few acquaintances. Engrossed in experiments of his own, he would often enter his private workshop and not emerge from it, sometimes for as much as twenty-four hours on a stretch. Except in a general way, he never discussed his experiments with me, for he was not a man given to much talk. I had not the least inkling of what it was that engaged his time and interest until two weeks ago. At that time he became very excited. God forgive me, I thought the excessive hours of work, coupled with little sleep, was affecting him mentally.

"Robert," he said, calling me into his workshop.

I went in. He was seated in a big chair right under the skylight.

"Have you ever read this?" he asked, holding up a large copy of the "Book of Mormon."

"No, sir. At least not all of it," I answered.

"But enough to know the story of how Joseph Smith dug up the tablets and was enabled to read and copy them?"

"You mean about the miraculous spectacles?" I laughed. "That bunk!"

"How do you know it's bunk?"

"Why, of course it is," I protested. "Who ever heard of such glasses before or since?"

"Nobody," he admitted. "And, as you say, Joseph Smith's story is probably bunk. But for all that, have you ever thought it might be possible to make a pair of glasses through which one could see—beyond this environment?" "What do you mean?"

"Well, you know we are living an existence that is an enigma to the wisset of our scientists and philosophers. I believe it was Milikan, the physicist, who once, on being peremptorily requested to define what he meant by the term 'spirit,' retorted that he would gladly do so if his questioner would first define what matter was. As a natter of fact, matter is something beyond our comprehension. It is, of course, reductible to force. But what is force? You see, we can reason ourselves to an impasse."

"Granted. But what has that to do with spectacles?"

"More than you think. Consider that we are living at a certain rate of vibration. Everything vibrating within range of our own rate would manifest itself to us as matter, that is, as concrete material, such as mountains, trees, cats, birds, snakes, etc. Anything below or above our range would to us be merely space, non-existent. You follow me?"

"Not quite," I confessed.

"Well, let me put it differently. You know there are sounds so high in frequency or pitch that the human ear cannot hear them, and vice versa, so low as to be inaudible."

"I understand that."

"Good. Then please remember that everything we observe around us, the smoke of factories, the red of sunset, houses, trees, animals, men, are all things manifesting themselves to us at varying degrees of vibration. At a certain rate they impige on the ear as sound, the eye as color, the tongue as taste, the flesh as feeling. If that be true, then there must be a

wealth of things all around us we cannot taste, handle or see."

I had never thought of this before.

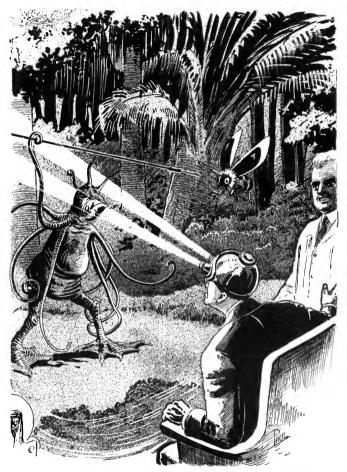
"You mean," I said haltingly, "that as there are colors and sounds which go above or below our vision and hearing, so also there may be trees, animals even men?"

HERE is another Flags story which you will instantly take to your bosom. A fish, summing in his over element, probably will find it impossible to hink—if he does think—that there could be any other dimension or any other plane where beings estis who do not swim. Likewize, it is dificult for us to imagine another totally different plane on which people could live without our being aware of their estitance. The author of this story brings on this point very clearly and most interestingly, and almost overcomes this difficult, or

> "Why not? What is space to us may be reality to them, and what is reality to them may be space to us. I literally believe that, as the Good Book says, there are worlds within worlds."

> The conception was stupendous; I stared at him fascinated.

"Robert," said the Doctor impressively, "the world, as we know it, the world of our five senses, has been pretty well explored. Lots of people think there remains nothing more to discover. But what if some-



Frozen with terror, I grared at the awful nightmare which seemed to pause and stare right into my face. Even in that moment of stark herror, I realized that it was human-or what would have here called by whatever term passed for human in that other would.

one were to open the way into those hidden realms all around us, the countless planes above and below! Think of the strange races that might be found, the new lands that might be visited, the wealth of knowledge that might be garnered!"

I thought of it and my head swam. Then I got a grasp on my common sense. All this was wonderful, of course; it made fine conversation; but, after all, it was speculation pure and simple.

"You know, sir," I said smilingly, "you made me believe for a moment that such worlds existed and could be visited."

"I am glad of that," he replied quietly, "because they do exist, and one of them at least can be visited."

This, I thought anxiously, is the result of overwork.

"Won't you come to lunch, Doctor? You know you've had nothing to eat since an early breakfast."

"Now, now, my boy," he laughed. "I assure you I'm quite sane and not at all light-headed. I repeat that such worlds actually exist, and that I am the Christopher Columbus who has discovered one of them."

I must have looked my incredulity, because he said with some force, "I see you doubt my contention. There is nothing for it, then, but to let you see it as I have seen it."

He picked up from a work-bench what appeared to be a pair of goggles. They were attached to a cap piece made to fit over the head. The lenses were of queer design. "In fact," soid the Doctor, "they are ground with forty-five inner facets specifically arranged so as to redistribute the light waves before they impinge on the refina of the eye. Nor is that all of it. There are really two lenses arranged for each eye-place, and in the space between them-about half an inch in thickness—is a space or cell filled with Radium-Tetra-Dimenol, a new substance. But I cannot tell you more, as I have discarded all the known formulae of optics in making these glasses."

He fitted the cap over my head, but as yet held the goggles above my eyes.

"I beg you not to be in the least alarmed, no matter what you see. Remember to keep quiet and not to endanger these lenses by any sudden move. Bear in mind the fact that you are in no bodily danger, that I am constantly by your side in this workshop, and tell me, if you can, what you see."

With that the eye-glasses were brought down until the rest-pice fitted the nose, and the side-flaps drawn back, were made fast in the rear. For a moment I was daziled. My blinking eyes were lost in a maze of contrasting crystals. Then, so suddenly as to galvanize me with the shock, the crystals merged into one harmonicus whole, seemed to expand, clarify, and I was gazing-gazing through the incredible aisles of a blue forest. It was a blue world that I saw. The trees, the giant ferns, the sucker-like blooms, were all blue. Not one prevailing shade of blue, no. The flowers, in some cases, were almost purplish red, and in others, shaded away into the most delicious contrasts of creamy whites and yellows. But the predominating color was blue. What could be seen of the sky was greenish blue. The very atmosphere had a bluish tinge, as if the winds were colored and could be seen. Whichever way I looked, the blue forest was before me. I turned my head. It was on either side of me-behind me. A shiver of fear ran down my back.

"Doctor !" I cried nervously.

The pressure of his hand reassured me,

"I am right here, my boy. Tell me, what do you see?"

"A blue forest," I said; "great ferns, and other growth of the same color."

"That is what I saw," he replied. "It isn't a tangled growth, though; it is more like a natural park, isn't it?"

"Yes," I answered, "it is more like a park. Wait! There's something stirring in the bushes to the left of me. I can't make it out as yet. I... Good God!" I gave a convulsive leap. If the Doctor had not held down my hands, I should have torn the glasses from my head.

"What is it?" he cried; but I couldn't answer. The strength left my body. Frozen with terror, I glared at the awful nightmare which seemed to pause and stare right into my face. Even in that moment of stark horror I realized that it was human-or what would have been called by whatever term passed for human in that other world. It was, perhaps, seven feet in height, naked, and of an indigo color over all. The eves were set at the end of short tentacles which continually moved and writhed and could bring the creature's vision to bear in any direction, or in several directions at the same time, for of organs of sight there were three. The mouth was a pouting thing that filled me with indescribable loathing, while the root-like legs ended in flat feet probably a yard in circumference. Four snaky branches were attached to the upper part of the body and were evidently arms. What made me conclude that this creature occupied the place of man in its own world, was the fact that it carried a weapon. This was a length of stick shaped like a short spear. That it was a weapon, and a deadly one, I soon had proof. Some monstrous sort of beetle came sailing through the trees. It was perhaps, a foot and a half long. The creature crouched, drew back what I must call one of its arms, and went through the motions of hurling the spear. The weapon never left its grasp, yet the insect fell as if struck by a bolt of lightning. The creature reached out with another of its snaky, branch-like arms. It seemed to have the ability of stretching it to an unbelievable extent. As the arm went, the tip of it became swollen, bell-shaped, finally falling over the stricken insect like an inverted cup. With a whip-like motion the prey was retrieved to the pouting mouth and swallowed-or rather absorbed-with an insuction of the lips. It was too much. The sensation of being alone in a weird wood, confronted by such a monster as this, made me shudder. When one of the writhing tentacles brought a saucer-like eye within an inch of my nose, I screamed and clawed at my head.

"For God's sake, Doctor," I screamed, "take them off!"

The glasses were removed. I stared at the familiar walls of the workshop with heartfelt relief. The blue forest, the hideous creature, were as if they had never been. I rubbed my eyes and laughed sheepishly.

"I'll admit, sir, that the thing scared me."

"What thing?"

"The indigo monster."

He shook his head. "I've never seen it."

I walked over to the faucet and drank a glass of water.

"Tell me, sir, isn't this some sort of trick you're playing on me?"

"In what way?"

"Oh, by arranging those lenses so as to create an optical illusion."

"No, my boy, no. What you saw is actual enough ---only on another plane."

I couldn't believe it. That the blue forest, the incredible creature and the bette it had swallowed, were all around me at that very moment, only manifesting themselves at a different rate of vibration, was unbelievable. It was too creepy an idea for me to accept without a severe mental struggle. What if something were to happen to the various rates of vibration, some accident merge them all into one! I wiped the sweat from mp brow.

"Don't you think it possible, Doctor, that you may have accidentally brought about an optical illusion? That what I saw has no reality, save as the products of the glasses themselves, ground and arranged a certain way?"

"I thought of that," he replied, "and that is one reason I called you in to look through them. The question was this: Would you only see what I saw? Personally, I saw only the blue forest, the flowers. But you saw something else besides. That would tend to prove that the spectacles are not deluding us, that we are really gazing into another dimension. However, let me assume the glasses and see if I can observe what you did."

I helped him to adjust the spectacles. After a few moments he said, "There is not one such creature as you describe, but a dozen. Some are smaller than the others, and these I take to be females. In addition to spears, most of them carry yellow sacks. Undoubtedly the creatures belong to the dominant species in this strange world, though one would hesitate before ranking them higher than the savages in ours. In some ways they remind me of trees. I shouldn't be surprised to learn that they had evolved directly from the vegetable kingdom. Their legs are really roots with leaflike portuberances. Now they are going away. They have disappeared to the right of me. The immediate forest is empty."

He was silent for a moment; but evidently saw nothing new, for in a few minutes he removed the spectacles.

"Robert," he said impressively, "you are the only one I have taken into my confidence. For ten years I have dreamed and experimented, keeping my own counsel. Until I am ready to announce my discovery to the world, I wish no word said of this."

"You can rely on my discretion, sir."

"Thank you, my boy, I knew you would say that.

But from now on I shall need someone's assistance. Will you help me?"

"Gladly," I replied, because the thought of that other world, the untold marvels that might be laid bare to mankind by the Doctor's invention, fired my imagination. The Doctor grasped my hand.

"I'll admit I had counted on you. Know then, that in conjunction with the glasses, I believe I have perfected a machine by means of which it is possible to enter that other plane."

I could hardly believe my ears.

"You mean," I gasped, "that you have invented a way of getting there?"

"Exactly."

"But how?"

"Briefly, by altering the present rate of vibration and bringing it in harmony with that prevailing in the other dimension. Obviously, if my body can be made to vibrate in accord with the blue world, I shall manifest there and not here. At least, I think so."

He led the way to what looked not unlike a big wringing machine of the roller type. The rollers, however, were of fine wire coils, interlockingly arranged, and there were twelve of them supported above a large tub filed with a metallic fluid. Several powerful looking electric batteries lay at the tub's base, on the floor.

"This," said the Doctor, laying his hand affectionately on the complicated appartus, "is the Re-vibrator. The person or thing to be re-vibrated is run through those rollers, at the same time an alternating current of electricity is maintained in the wire coils which affects the molecules of matter and brings about the vibratory change. Just how this is done, I cannot tell you, for I do not know; but take my word for it, it is done."

I stared at the inert piece of machinery with mixed emotions. That anyone or anything could be run through its rollers to another dimension seemed the height of absurdity. Yet, after my experience with the glasses, I was distrustful of my own doubt.

"I have here some white mice," said the Doctor. "If you will put on the spectacles again, Robert, I shall run them through the rollers and you can see what happens."

With trembling hands I affixed the cap, the goggles. The same blue forest grew before me, but now I saw it from a slightly different position. In spite of myself I could not repress a little shiver. This preliminary shiver was always to be mine whenever I gazed through the glasses. To all intents and purposes I was transferred from the workshop and set down in a blue wilderness. To reassure myself, I gripped the sides of my chair and ran my hands over them from time to time. In my ears sounded the purr of grinding cogs.

"Watch very carefully, Robert," came the quiet voice of the Doctor, "I am sending the first mouse through." Nothing happened.

I strained my eyes in the direction from whence his voice had come.

"I see nothing yet," I began, then gave a convulsive start, for in the blue air, to one side of me, appeared the head of a mouse. I stared at it tensely. The shoulders followed the head, the forepaws the shoulders; then, by degrees, the rest of the body. No sooner was the body altogether in one piece than it fell a distance of several feet to the ground. And what a white mouse! It was now as large as an ordinary rat. For a noment it cowered on the purplish grass, its pink eyes darting from side to side; then, apparently recovering from its first surprise at finding itself in such queer surroundings, it ran nimbly up a tree trunk and was lost to view behind a mass of foliage. Two more mice came through and acted in a similar manner.

"But what made them so much larger?" I asked the Doctor, after removing the glasses.

He looked at me thoughtfully. "I cannot say for certain, unless the pressure of the atmosphere is much less on the other plane than it is here. But whatever the reason, it doesn't seem to have impaired the activity of the mice. Also they went through the rollers in good physical condition. If mice, why not men?"

Indeed, why not? It appeared perfectly feasible. Yet at the thought of entering that other world physically as well as visually, my flesh crept.

AFTER lunch, about three-thirty, the Doctor called me into the workshop again.

"So far," he said, "we have only looked into that other dimension from one spot, this room. How would it appear from some other place—say Lake Merritt Park?"

"I have no idea."

"Well, let's go and see."

Seated on a secluded bench, the Doctor opened his satchel and produced the glasses.

"Put them on, Robert," he commanded.

Nothing loath, I obeyed. The same startling metamorphosis took place in my surroundings; but this time I was on the edge of the blue forest and before me stretched a rolling plain. It was covered with a profusion of daisy-like flowers and low-growing shrubs. A herd of purplish-black beasts with six legs and tortoise-like heads were grazing in the near foreground. They were about the size of sheep.

Though now more or less accustomed to the sensation of being transported, as it were, into this mysterious other plane, I could not refrain from instinctively crying out when the herd of beasts suddenly stampeled in my direction. It was hard to realize that I had no existence for them; that I was so much space through which they speel like a whirliwind and were gone.

Not all of them, though. A half dozen of the sixlegged beasts were left behind, stark and lifeless.

From the low-growing shrubbery through which they had evidently crept in a recumbent position, hurst a band of the oddest huntsmen mortal eyes ever beheld. I call them huntsmen, because, though much shorter than, and in some respects different from, the indigo monsters seen in the forest, they, too, belonged to the same dominant species. In color they were not unlike yellow copper, and in height they could not have exceeded five feet.

If they had been the first "human" beings to meet my sight in this weird world, I should doubtless have considered them horrible enough; but compared to the hideous giants of their kind, they were almost beautiful to observe. Formed much as were the giants, there was this difference in structure. The eyes—of which they possessed but two—were set on the ends of stable protuberances, and not of writhing tentacles. A feathery, fern-like hair grew plume fashion from the head and waved in the wind. The mouth was more pleasing than the pouting mouth of the indigo monsters, the lips flower-like, but the arms and legs were of the same general nature, though on a more delicate scale. I relinquished the glasses to the Doctor, who wished to observe them for himself.

"Yes," he remarked, "these creatures are undoubtedly of the same species as the ones seen in the forest, but palpably of a dwarfish branch. I am inclined to think them higher in the social scheme than the others. They are armed with the same sort of spears, but in addition carry knives or swords with which they are dismembering the game."

He rose abruptly to his feet.

"Robert," he said, "they are getting ready to move on. By means of the glasses I am going to try and trail them to their homes. I want you to lead me by the arm and see that I don't stumble into people and buildings or get run over. Keep track of the streets and the general direction, because later on I shall try and draw a map of the course I've followed!"

Then ensued one of the queerest walks I've ever taken. Oddly enough, the course followed by the creastures in that other world seemed to follow the streeds laid out in this. There were times, of course, when the Doctor complained I was leading him away from their trail, but nearly, always some street swing us once more in the desired direction, or they turned back into ours. For three-quarters of an hour we walked. Suddenly, in the vicinity of Fruitvale Avenue, the Doctor halted.

"Marvelous," he murmured. "Wonderful. I expected nothing like this."

"What is it?" I asked, all on fire with curiosity. But for nearly ten minutes he made no answer; he was absorbed in the contemplation of something he saw. At last I could contain myself no longer. I shook him by the shoulder.

"May I have a look, sir?"

"Yes, Robert, yes," he said, coming out of his spell with a start. "Of course you may, my boy."

I assumed the cap and goggles with trembling fingers. What new marvel could I expect to see? What further monstrosity? The glasses came over my eyes, the flaps were buttoned. I strained my vision to the utmost. The familiar blue grew in front of me. But what was this! No forest, no rolling plain, but a city. A great square of sapphire blue was all around me. Underfoot lay a flagged pavement of the same color, dotted here and there by showering fountains, strange trees, exotic blooms. This square was bordered with magnificent buildings. Like spokes radiating from a central hub, wide avenues ran away from the square. I looked about me with awe. Who owned this city? Surely not the indigo giants or the copper-colored dwarfs. This magnificent place seemed far beyond the capabilities of either to build. Here, undoubtedly, dwelt the real rulers of this other dimension, the superior race of all, but where were they? Save for some gigantic butterflies, some creeping reptiles not unlike lizards, the place was deserted. Everything was in perfect order, no sign of ruin or decay, yet not a glimpse of inhabitants could I gain.

"The housetops, Robert," came the voice of the Doctor. "Look at the housetops."

Even as he spoke, I saw them. Were they living beings or statues wrought from navy-blue stone? There they were, like carven images, on the cornice of every building. Their basilisk eyes were set in a fixed stare, and on one outflung limb some terrible insect poised, with wings spread, as if ready for flight. It was ghastly. I felt the gooseflesh rising on my skin.

And there was another uncanny thing.

Try as we might, neither the Doctor nor myself could gain access to one of those buildings. Always, no matter how we moved, we were in the open, and the edifices of sapphire stone were so many sealed crypts.

"But that is natural enough," I exclaimed, after some thought. "If from another plane, people were to gaze at our world, they would not be able to look through wood or stone into our houses."

"True enough," replied the Doctor, "but you forget that, while, by means of the glasses, we are viewing the wonderful city, our bodies are capable of moving through the space its buildings occupy. Theoretically nothing should prevent us from pausing on the spot in this plane occupied by one of those buildings on the other plane and viewing its interior."

All the time we sat on the kerbing, talking and alternately gazing through the glasses, people in our own plane were passing to and fro and looking at us curiously. I wondered what they would agy if I should gravp them by the arms and tell them that the space they walked through so carelessly was occupied by immense buildings of a strange design; that all around them were nightmarish monsters with three eyes and sucker-like hands; and that they were only separated from another world and all its untold terrors by a variation in the rate of vibration. They would call me crazy, of course. But what if they should catch a gimpse of an indigo giant through the spectacles? What then? I pondered over that thought as we wailed homewards.

That night, the Doctor drew a map of the other world—or rather, of as much of it as he had seen or could visualize.

"The forest is here," he said. "To the east are the rolling plains; and southeast of us lies the Silent City."

He studied what he had drawn intently.

"That's funny," he remarked.

"What is?" I asked.

"The size of that city. It occupies only a section of East Oakland, and yet it impressed me as being immensely large." He shook his head. "The whole thing is an enigma, but one that shall not baffle me much longer."

Suddenly I thought of something. "Those huntsmen you followed," I exclaimed, "what became of them?"

"I don't know," confessed the Doctor. "When I saw the buildings to one side of me, I ceased following the huntsmen and directed my footsteps toward the city."

AFTER he finished with his map, we spent several hours gazing through the glasses. It was night, too, on that other plane. In the blue forest dense darkness brooded. Nothing was to be seen but spectral lights fitting through the trees. Several times vague shapes blundered by; and once a bat-like something soarde right into the space that was my face. So vivid was the scene on that other plane, so real the feeling of being surrounded by black night and at the mercy of unearthly creatures, that I was forced, from time to time, to remove the glasses and assure myself that I was not really there. It was after midnight when I retired to bed, and I left the Doctor still gazing through the spectacles. In the morning, however, he was afoot early, and appared fresh and rested, more so than I.

"Well, Robert," he said cheerfully at breakfast, "this is the big day."

"We are going to take the spectacles out again?" I asked eagerly.

"Better than that, my boy; I am going through the machine."

I tried to dissuade him from his rash project until he had viewed the other plane more thoroughly with the glasses, but he was adamant.

"The mice met with no harm and neither shall I."

"From the machine, no," I replied, "but what has their fate been from other beasts? Perhaps by this time they have been devoured. Think of the indigo giants. What would you do if you fell in with several of them? And there are doubtless more fearful creatures of which we know nothing."

"True, Robert, true; but  $\tilde{I}$  shall take implements with me. A German lüger\* with plenty of cartridges; a compass. You might as well cease talking, my boy, my mind is made up."

Still I did not desist.

"Let me go, sir," I pleaded, even though my flesh crawled at the very thought. "I am younger than you, stronger."

"No," he said, "no. This is my adventure. I have been looking forward to it for a long time and do not mean to step aside for another."

"Then take me with you!" I cried. "In that unknown world two will be much safer than one."

But this request he also denied.

"You must stay on this side and be ready to operate the machine when I return."

There was nothing for it, then, but to repair with him to the workshop and listen to his last instructions.

"I am going to make for the Silent City on my first expedition," he said. "I expect to be gone only a few hours. Under no circumstances must you leave this machine in my absence." He laid his hand on the Re-vibrator. "Watch for me with the glasses, and when I give you the sign, press this button here. It reverses the action of the Re-vibrator and will restore me to this room. Do you understand me?"

I made him repeat his instructions.

"There, I'm sure you've got it, my boy. And now

<sup>\*</sup>A pistol with magazine for cartridges.

look through the spectacles and see if the road is clear."

With a heart full of misgivings I did as he bade. Nothing was stirring in the blue forest. Only the ferns waving gently, and the leaves of the tall trees.

"To make sure that the machine is functioning properly, I am sending the lüger and a box of cartridges through by themselves," said the Doctor. Almost with his words the lüger and cartridges materialized on that other plane. But now the lüger was the size of a large rifle and the ammunition box as big as a shoe-box. I remembered the mice, and a foreboding of trouble came over me.

"Doctor," I began, but never finished the warning, because the Doctor was coming through.

I saw his head. It was an enormous thing. I looked at it with horror. Behind it came the massive neck, the mighty shoulders. Inch by inch, seemingly out of nothing, the unbelievable body emerged, fell to the purple grass.

"Good God!" I exclaimed; for when the Doctor rose to his feet he was all of twenty feet tall. He stood up, a great colossus of a man, and stretched his arms experimentally, stamping with his feet, and taking several deep breaths. He smiled reassuringly at me and waved his hand in my direction, though of course I was invisible to him. I watched him with hated breath, as he picked up the liger and retrieved the box of cartridges. Quite calmly he consulted his compass and map, got his bearings, and after a last glance in my direction swumg off through the trees and ferns. His gigantic figure was visible for some distance, the head appearing above the tree-tops. Finally it disappeared and I was left to my lonely vigil—surely the strangesi vigil ever kept by mortal man.

UNCH time came and passed. The evening shadows deepened. Darkness fell over the blue forest in that other world-the creepy forest through which I had seen the Doctor walk and disappear-and still he did not come. A prey to the most ghastly of fears, I sat all night by the Re-vibrator, peering through the glasses at the spectral lights that wandered among the trees, shuddering at the bat-like forms which swept silently on and over me. And all the time I asked myself how it went with the Doctor, overtaken by night on that other plane. Had he succeeded in reaching the Silent City? Was he encamped there now or had some hideous beast destroyed him or some strange power taken him prisoner? I thought of those brooding images on the housetops and the blood ran cold in my veins. I had one consolation. Save for the navy-blue statues in the Silent City, on that other plane, no creature as large as the Doctor now was, had been seen by me. Even the indigo giants were dwarfed by the colossus he had become. And he was armed with an immense lüger-a deadly weapon. Yet for all that, anxiety consumed me.

Morning dawned. Haggard and worn, drinking cup after cup of black coffee, I watched through the leaden hours of the second day. The blue forest was strangely still. Or was it my imagination? Nothing stirred in its depths. No life, no motion. I might have been staring through a stereoscope at blended pictures. The Doctor had said he would be only a few hours, yet the second night came and he was still missing. With the descent of darkness the blue forest became aive. It moved and murmured. Though I could not hear it murmur, I sensed it. Perhaps the blood was pounding at my heart. I cursed myself for ever having allowed the Doctor to embark on his rash journey. I should have restrained him—by force, if that had been necessary.

The third day dawned.

I watched it breaking in that other, that incredible world, that blue dimension separated from our own merely by a slight difference in rates of vibration.

"If he does not come this morning," I said to myself, "I shall take the glasses on the streets and go searching for him."

But about eight o'clock I saw him. I shouted aloud in pure joy, oblivious to the fact that he could not hear my voice. He came striding through the forest, ten yards at a stride, and most amazing sight of all, a dozen indigo giants came with him. The Doctor's clothes seemed much the worse for wear, torn and rent, but he himself appeared sound in body and limb.

I was beside myself with excitement. What strange sights had he seen, what adventures had he had? The indigo giants were evidently his friends. He had been to the Silent City. In a few minutes now, he would be back in the workshop with me, telling me of the marvels of that other plane, the secret of the navy-blue statues. I could not restrain another exultant shout.

Arrived at the spot where he had made his landing three days before, the Doctor looked about him hesitaingly. I could read what he was thinking. Was this the correct spot? To reassure him I ran a pencil—the first thing my fingers picked up—through the Re-vibrator. It dropped at his feet the size of a walking stick. At this sight the indigo monsters recoiled with every indication of wonder and fear. Instantly the Doctor smiled. He waved his hand. His mouth formed the words, "Reverse the Re-vibrator." I pressed the button he had instructed me to. Nothing happened. The Doctor pawed at the air with his hands, a perplexed look beginning to dawn on his face. For perhaps five minutes I waited; then I scribbled a note on a piece of paper and sent it through to him.

"What is the matter?"

He picked up the paper, now the size of a napkin, and wrote on the reverse side, "I cannot come back, because on this plane the machine has no existence."

"Good God!" I whispered, appalled. Then the following dialogue took place between us by means of written messages.

"What do you mean?" I asked.

"That I have overlooked a vital thing."

"In what way?"

"By forgetting that the Re-vibrator can manifest other things over here, but palpably not itself."

Through the glasses I glared at him in horror.

"But what are you going to do?"

"I don't know. I'm trying to think. In the meantime, Robert, can't you send me through some food—a pot of coffee? I'm starved."

"Yes," I answered back, "yes."

To get the food and coffee I had to remove the goggles,

How it happened I don't know.

Perhaps my nerves were unstrung from the long hours of wakefulness, the terrible suspense of three days, the crowing disaster of all. Be that as it may the cap, the goggles slipped from my fumbling fingers and fell-straight into the tub of metallic fluid under the rollers.

Half frantic with terror I dipped them out and dried

them off. No, they didn't seem hurt, they weren't broken; but when I tried to look through the lenses I could see nothing but blackness.

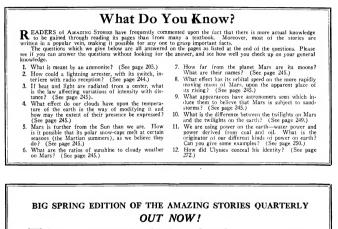
That was ten days ago. And every one of those days I've been in this room sending food and supplies through the Re-vibrator, and trying to fix the glasses. That is all.

That is all

You ask me where the Doctor is?

I tell you he is somewhere in space, on that other plane, trying to get back-and he can't!

THE END



THERE is a new, big SPRING issue of the AMAZING STORTES QUARTERLY now on the newsstands for you. Biggest, best edition yet published. Be sure that you get your copy of this remarkable book of truly anazing stories. Many of the famous authors, whose work you have become familiar with by reading AMAZING STORTES MONTHLY, you will find represented in this big Spring edition of AMAZING STORTES QUARTERLY.

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# A BIOLOGICAL EXPERIMENT By David H. Keller, M.D.

Author of "The Revolt of the Pedestrians" and "The Yeast Men"



HE books have been tampered with! Ten of them are gone !"

The first Assistant Librarian of the Congressional Library rushed trembling into the office of his superior and, reaching the Librarian's desk, he repeated his startling statement.

The Librarian, who had taken thirty civil service examinations and been promoted thirty times in order to reach his present position, refused to be flustrated by the news, and sharply reprimanded the subordinate for his unnecessary excitement.

"Make a list of the missing books, and report the facts to me. You know the routine method of doing things in this department. In the future please adhere to it."

"But there is no routine, sir, no precedent for this. It is the first time that any books have been missing for several hundred years. You know that the rooms are never opened and the books never touched-and there is another thing. The assistant watchman who has been in charge of the books for the last year failed to report for duty and his monoplane is gone.'

"Do as I tell you! Make an official report of the entire matter and I will investigate it. In the meantime, I will thank you if you will leave the room and allow me to continue my studies in mass education." There was a finality in his voice that definitely closed the discussion.

THOUGH it was only eight in the morning, a

I young woman was out walking on the lawn of her sister's country estate. Now and then she looked anxiously at the sky where the large passenger planes were humming their way toward distant cities. She paid little attention to these, but finally a smile replaced her anxious expression, as a small monoplane came hurtling down from the blue and landed skillfully on the lawn. A young man jumped

 $H^{\it ERE}$  is an exceedingly interesting story by the author of "The Revolt of the Pedestrians." Dr. Keller has touched a subject which will be of greatest interest to every woman.

Is it possible to propagate the race without fertilization? In other words, can we raise fatherless children? Biology teaches us that it can be done. We are not at all sure that such a thing may not come about in the future, and while it may not take on such proportions as outlined by the author. still, from a scientific standpoint, it may prove a great exberiment.

We urge our male readers to let their female friends read the story. They will not rearct having read it.

out and ran toward her and as he ran he cried:

"I have the books, Elizabeth! I have the books !"

The girl ran toward him, as she replied:

"I am so glad. Do they tell what we want to know? Were you able to read them?"

He took her in his arms and kissed her before he answered her questions.

"I believe so," he finally said, between the kisses. "Of course the language is peculiar and there are lots of words that I do not know. You see I have only been reading for two years, but I brought along a good dictionary of obsolete words and I believe that we can work it out. It will be a lot of fun to do it together."

She looked at him trustfully.

"Yes, Leuson, that is the right word. From now on we are going to do everything together. I have all my things ready and, best of all. I am ready for the new life with you."

Without the loss of any time, he helped her pack her various bundles into the plane and then securely fastened her into the passenger's seat. He took the aviator's position in front of her. They were ready to start, but for some reason he delayed. It seemed that the man was not sure of the wisdom of the adventure they were starting on. They waited a little too long, for an older couple came out from the house and walked toward the monoplane. They were the celebrated biologists, Dr. Hardner Gowers and his wife, Dr. Helen Sellers Gowers. It was hard to tell which one was the more learned scientist. In their early life they had been poor but had attained both fame and wealth by the sheer force of their combined powerful intellects. Following their companionate marriage, they had assumed all responsibility for their sister, Elizabeth Sellers, and also had claimed the right to control the details of her daily life, much to the annoyance and disgust of that young lady, who wanted to do as she pleased, when she pleased and as often as she pleased.

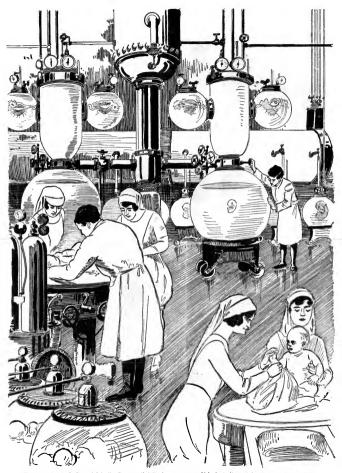
"Hullo, Leuson," called Dr. Gowers, "Going out rid-

ing with Elizabeth? The air looks pretty but Helen and I have been so busy lately that we have not been up in it for ages. We have been hunting for you, Beth. We have a great piece of news that I am sure will please you. Your sister and I have decided to apply for a baby !"

"About time !" replied the young lady, sarcastically, "After you have done everything else that you

wanted to do, you finally make up your mind to apply for a child. You should have done that years ago.

"Now, Elizabeth," replied the older woman, 'we have talked that over and over and you know that I just had to finish my special line of investigation before I could devote my time to a child. You have no idea what it means. Even with the most competent nurses, it takes time. I have been fortunate in locating three very excellent women who have had a lot of experience



These experiments finally ended in the discovery that the human ovary could be kept alive and functioning under certain conditions in a glass vessel.... By a similar process to that used with the eggs of the sea urchin, these ova could not only be kept alive, but could be developed into fully matured bables. At a certain point in their growth, respiration started with a pulmometer....

with babes in the Government Nurseries, and we are asking for a four-year-old child. It will not be so hard on me then as it might be under different circumstances. Some women are even attempting to take care of a baby without help, but of course, they have never done any research work. I am willing to give as much as an hour a day to the child and will do all I can for its future health and happiness."

"You see it is this way, Leuson," said her husband. "You and Beth are very young and naturally you cannot see the responsibility of applying for a child-it is something you cannot comprehend as we do. My wife has been very wonderful about it and has promised me repeatedly that she would join me in an application for a child just as soon as she completed her investigations into the life history of the Cryptobranchus Alleghaniensis. This work, in two hundred and ten moving picture reels, is now completed; when it was shown to the International Society of Biologists, they made her a life member, an honor that has never before been given to any woman. It is true that she spent over twenty years at this work, but she has enjoyed every minute of it. She is just entering middle age and is well qualified in every way to supervise the care of a child. We are able to employ the best of help and can buy the most modern electrical equipment. We will welcome the child and give it every possible social and educational advantage.

"That is fine, Dr. Gowers," said the young man, enthusiastically. "If you were in my place, what would you advise me to do?"

The old Doctor smiled paternally, as he replied,

"Select an intelligent lady you can harmonize with and hand in your application for your papers and arrange for the preliminary treatment. You have a position under the Government and no doubt your wife could secure a place in the same office; then you can have a companionate marriage. I believe in early marriages and shall be glad to help you in any way I can. It may be that by the time you are thirty-five you can apply for a baby."

"I shall be glad to avail myself of your help," replied the young man. "Now we shall have to be going so we can have a long day's trip."

"Don't get tired, Elizabeth," advised the older sister. "You know you have passed all the examinations and the day for your operation has been set for next month. It is a great honor and I want you to be in the best physical condition."

Amid the roar of the engine, Elizabeth called back: "Good-bye, Sis. When we come back you will see us."

They were off.

The two doctors walked back into the house. The wife said:

"I am in earnest about this new work of being a Mother. I am going to arrange a perfect program that will keep the three nurses busy."

"You will make a wonderful Mother," replied her husband, with a far-a-way look in his sad eyes.

**R**ISING rapidly into the air, the monoplane made certain circular movements and then started west-

ward along the Potomac. Although the machine was capable of three hundred miles an hour, Leuson seemed satisfied with a much slower pace, and they did not reach Pittsburg till late in the afternoon. At that time there were less than ten thousand people in that city for there was but little demand for coal or steel in the new age of atmospheric electricity and glass. Leaving the plane on the aviation field, the young people walked to the office of the local Judge. This official had been in office for so long that he had become careless of details and obsessed with the idea that he could not throughly examine the papers Leuson handed him, but asked gruffly: —

"So you want to enter into a companionate marriage?"

"Yes, sir," was the double reply.

"Are you able to support yourselves individually? "Yes, sir."

"You have your permits, vaccination certificates, life insurance, health, accident, tornado, air and happiness insurance?"

"Yes, sir."

"You each consent to an immediate and complete divorce in case you are ever unhappy living together?" "Yes, sir,"

"Then I pronounce you man and wife. Sign these papers so I can send them to the Central Matrimonial Office. Is this your first experiment?"

"Yes. sir."

"I was married eleven times before I could find a woman I could live with. I understand that is not an unusual experience."

The young people rushed from the office, and walked back to their plane. Leuson looked a little worried, as he said,

"I am sorry that I had to forge some of those papers, but let's go."

The monoplane, avoiding the usual air lanes, went steadily usersward, finally resting on the grass of an isolated meadow among the peaks of the Ozark Mountains. There was sunshine here and a little singing brook and while three sides of the meadow were sheltered by dense woods, the other side was guarded by a sheer cliff of overhanging rock, which rock some hundreds of feet above the cleared field. The young people acted as though they were thoroughly at home. As a matter of fact, they had made frequent visits to this field and had thoroughly prepared, as far as they could, to make this place their home.

Traveling all day and night, they had reached the meadow just as the sun was first kissing the tree tops. They were tired, but they were far too excited to rest, so they started at once to unload the plane and carry their packages up a narrow, winding mountain path which the boy had constructed, and which ended in a cave one hundred feet above the level of the field. After everything had been carried, the plane was put under the trees and covered with waterproof carvas. They never intended to use it again, but they felt that it might be useful in an unexpected emergency. Finally the necessary things were all done and the boy and girl, for they were little more, sut down to rest on the narrow rock shelf in front of the doorway of their new home. They dissolved a few synthetic food tablets in a pint of spring water and slowly sipped their meal.

They put a few pillows behind them and sat there looking toward the west. The girl shivered but it was from cold rather than from fear.

"Now, tell me, dear, just what you have really found out about it all,"

He drew her closer to him as he started to talk.

"Of course we are just youngsters, Elizabeth, but I guess we are old enough to know our minds, and decide what we want. I have been reading a lot of the history of the thing and I was just fortunate enough to be able to find some real old books and take them out of the Congressional Library.

"Years ago, when we first found each other and realized that we were in love and wanted to be different from other folks, we knew that unless we learned to read we should have to receive the same mass education that all the young people received. Even then we were tired of looking at the educational moving pictures and listening to the same lectures given over the radio. It was this that prompted us to seek positions where we could learn to read and have access to the lod books. Do you remember how we used to talk about it? How in those back rooms in the Library were printed books that no one had read for centuries and yet which were carefully guarded under lock and bolt so no one would get them?

"It seems odd, but we found that it was a fact that the citizens of a supposedly free country have had no choice in their education or amusements for over a thousand years. Every home has its radio, its movie, its televisonal box; but every fact and picture that came to them was approved of and censored by the National Board of Education and Amusement. No one had a right to have a private opinion; everyone had to think like everyone else. There was a gradual death of individuality. Whenever a change was desired in mass opinion or action, an educational propaganda was started. Finally, all thinkers were engaged by the central government. If they wanted to make any statement to the world, they had to have their message passed by this National Board. The entire learning of past ages, put into books, was a closed secret, save to a few who were taught to read, that the art might not be entirely lost.

"As you know, we both were fortunate enough to secure this special education. Then finally my chance came and I was selected as the night watchman. After months of search, I located the books I wanted—and stole them and stole you. Now I want to tell you the history of this problem.

"This is June, 3928. A great many centuries ago life was very different in this world. Everything has changed during the last twenty centuries. But I want especially to talk about love, marriage and babies, and to give you some idea of the changes in these three important divisions of the human economy.

"Twenty centuries ago there were lots of babies and they were all born. That is just a four letter word that means nothing at all to you now, but at that time it was the only way whereby the existence of the human race could be maintained. A man and a woman married each other and in the course of time a baby was born to them. Strange as it may seem to us now, the baby was the actual child of the two persons who called themselves its Father and Mother. These babies all reached the breathing stage of existence at the same age, they all looked alike, they all had the same average intelligence and it took a lot of care and love to raise themalso a lot of intelligence-and as a consequence, a great many of the little things died the first year. What I want you to understand is the fact that any two persons who were married had a right to have one child or a dozen. The license to marry automatically carried with it the right to have as many children as they wanted to. This was centuries before the National Child Permit Act was passed.

"There were so many babies in so many families in those days that it was quite a problem to raise them. The amount of detail and care each baby required must have been terrific. If a child was intelligently looked after twenty centuries ago, it took fully six hours a day of the Mother's time. At least so I have read in the old records. The condition is nicely illustrated in the old patents applied for at that time. Some are hard to understand but all seem to have for their object the lessening of the time that had to be daily spent on each laby. Life for parents in those days must have been one continual round of duy.

"Yes, I am satisfied that there must have been a lot of trouble twenty centuries ago with babies, having them the way they did and having to care for them. Then, too, there was such a scatter of the babies. Some families had a dozen and some had none or perhaps just one. Many of the babies were not well; they had a lot of diseases that we have not seen for over fifteen hundred years and some doctors were able to make a living just treating sick children. The sad part about it all was the fact that those who were wealthy and intelligent seemed to have the fewest children. It was only the poor and ignorant who had large families.

"Just about two thousand years ago a Judge, in what was then the United States, wrote a book about companionate marriage. I translated this into modern English and waded through it with a great deal of interst. Of course it is very far behind the times but we shall have to give the Judge credit for starting something. He had a law passed which allowed a man and woman to marry each other and live together as long as it was mutually agreeable to both of them. They were not supposed to have any babies born to them until they were fairly sure that they would want to live together for life.

"O NE hundred years later a law was passed to the effect that no woman was to have a child until she and her husband secured a permit from the Baby Board, and it was thought that this would diminish the number of babies in poor families. All children were supposed to be born in government hospitals, and a woman was not admitted without her baby permit. Naturally, lots of babies were born surreptitiously without permits. It all worked out very unsatisfactorily.

"By the twenty-seventh century the human race was

In a rather pitful condition. All of the so-called savage races had been blotted out of existence by new and deadly diseases. The Caucasian race saved themselves after a death rate of fitty percent. Those who remained alive were almost degenerates in many ways. The extensive use of the automobile came near withering the legs of the genus Homo. The only perfect form of man or woman was of marble in the art galleries. The hospitals for the insane and feeble-minded and epileptic were crowded to their utmost capacity. As a final resort Congress passed a National Sterilization Act, affecting those who should be found unfit to have children,

"For a while it worked and then it was discovered that so many people were being sterilized because they were unfit to be parents, that the human race was rapidly shrinking in number. Sterilization solved so many of the problems of modern life that it became too popular-almost a fashionable fad. When a man and woman entered into a companionate marriage they thought they would feel a lot happier if they knew they would never have babies. This condition of affairs existed in and around 2800. The people actually abused the law and took advantage of the National Sterilization Board. You see, before a person could receive a sterilization permit the Board had to be convinced that the applicant was mentally and physically incompetent to have children; and many bright, intelligent men and women would go before the Board and take the examination and pretend to be feeble-minded just so they could receive the permit. Those were the very people who should have had the babies; yet they were the ones who did not want them. Having a baby in those dark ages was almost as bad as death itself.

"The human race at that time was not only degenerating as individuals but disappearing as a species. It was at that time that our scientists began to talk about synthetic babies. A lot of research and experiments were done on the lower forms of life. It was found that a piece of heart muscle from a chicken embryo could be kept alive indefinitely and go on growing in an incubator. Later on the surgeons were able to keep entire organs like the liver and splena alive, and transplant them into the site of similar diseased organs. It was determined that the eggs of the sea urchin would grow into mature adults without the aid of the male; all that was necessary was to put them in water containing certain salts at a certain temperature.

"These experiments finally ended in the discovery that the human ovary could be kept alive and functioning under certain conditions in a glass vessel. Such an ovary was able to develop and expel a perfect ovum every twenty-eight days. By a process similar to that used with the eggs of the sea urchin, these ova could not only be kept alive but could be developed into fully matured babies. At a certain point in their growth, they were taken out of the sterile glucose solution and respiration started with a pulnometer. As far as any tests were concerned, they were just like all the other babies.

"A great many of these synthetic babies were made and allowed to grow up under ideal conditions. It was soon discovered that they could be kept free from all the diseases of childhood, they could grow into vigorous adults and be compared very favorably with the best of the race—provided they came from the ovary of a woman who was perfectly normal. That caused a lot of thinking and the thinking ended in the rapid collection of material and building of large numbers of special laboratories to grow these synthetic babies in.

"When all was ready, the Universal Sterilization Law was passed. All young people were required to spend a few minutes under a special form of radium ray when they reached a certain age and no one was allowed to enter into a companionate marriage until this had been done. The continued supply of material for future use was provided for by one of the sections of this act which stated that all young women were to take an examination and those who were nearly perfect in every way were required to submit to an Oöphorectomy and were compensated for this by special pensions and privileges denied other women. In regard to this, I need not remind you that it was one of our reasons for fleeing from modern civilization. It was a danger that threatened you in all its horror.

"Anyway, the machinery was finally set into motion. The records show that the last child was born on the western continent on July 4th, 3009. Since then the race has been kept alive by the production of synthetic babies. About one hundred and fifty thousand babies are produced every year. They are all perfect in every way because any who show defects are not allowed to develop. The Government keeps them in nurseries till they are called for. We saw how that happened in the case of your sister and borther-in-law. After they were forty years old, they decided for a four-year-old child.

"These babies, grown under ideal conditions, the offspring of tested ovaries, have in a thousand years saved our race from degeneration. In fact, everybody now is perfect in practically every way. There is little sickness and people finally die painlessly of old age. Of course we have not a very large population, but what we have is composed of very fine individuals."

At this point Elizabeth Sellers jumped to her feet as she exclaimed,

"And yet in spite of the perfectness no one is happy !"

"That is it exactly?" agreed the young man. "There has been no trouble in making a living, everybody is comfortably housed and clothed, there is no sickness, food is abundant, everybody is working at some interesting work—and yet no one is happy! We saw that years ago and we know now that it is true."

 $T^{\rm HE}$  young woman sat down again and snuggled close to the man.

"Tell me again why they are not happy. I have heard you tell it before but tell me again. I want to hear it out here in the wilderness where we are alone—together."

The man put his arm around her and drew her close to him as he replied, and his voice had the soft tenderness of a breeze in the spring time, as it scatters pollen.

"They are not happy because love has disappeared from the world. When children grow up now, they have only permit parents. They think they are falling in love when they enter into a companionate marriage. All they do is to share the same house during the hours they are not working. After they have accomplished all their ambitions require of them they try to satisfy their desires for a family by securing a baby permit and a child. The child can be of any age when it is taken into their home. It is a child from the ovary of a woman who may have been dead three hundred years. It is a child that never had a father. The man and woman pretend that it is their child but all the time they know that it is not so and so does the child. The four-year-old baby your relatives are adopting this week can think and talk. Can it believe that this man and woman love it when they let it stay in a government nursery for four years without claiming it?

"There has been a surplus of women. These have been used as nurses. Your sister will do nothing for her child except supervise its care by three experienced women who know a thousand times more about child culture than she does. The child will grow up to be intelligent, strong and beautiful, but it will grow up in an atmosphere devoid of love. A man and woman who are married, the way they are, in this period of civilization, do not know how to love a child because they never loved each other."

"But what is love, anyway?" asked the young woman. "Love is sacrifice!" was the reply. "That seems to be the only definition. I have read the old books and when people in those old days were in love they always had to sacrifice themselves. A boy and a girl in love with each other waited for years till the time came when they could marry. They gave up their ambitions, their future, their success in life so they could marry. For years most of them felt, what was called in those days, 'the pinch of poverty.' There was sickness and constant work and struggle for the necessities of life. The love life centered around the house they lived in and they called this house a home. This is a word that disappeared from the English language years ago, centuries ago, when it was destroyed by the automobile, the aeroplane and moving picture, to say nothing of the companionate marriage.

"They lived in a house that they called a home and they had children. Every child they had made life harder for them. Knowing nothing about it they had to learn to raise babies and care for them. The little things were often sick. The father worked all day and helped care for the children at night and the mothers never ceased to work. The children died and the men had to borrow money to bury them. That was before the time of universal Government cremation. Often the wives died and left the men with children, with little babies one day old; or the husbands died and left the wife to struggle on till the children grew old enough to help. Everything in that life meant sacrifice and out of that sacrifice grew the thing the old poets called love. It was so very different from what we call love today."

"You know so much about the old love," whispered the girl.

"That is because I have read of it. At its best it was a beautiful emotion and at its worst it was worth while. It made existence human. They lived like animals but they worshipped each other as though they were Gods. They were hungry and destitute and poor and sick and weary but when they faced the sunset of life together, they were happy—because they had sacrificed everything and as a result of this sacrifice they had found love. Their house was often poorly furnished and the place of much hardship but it was a home. Their babies were sick, cross and a constant care, but they were their own flesh and blood. When a man wrote about love in those days you knew he was happ in spite of everything.

"It is hard for a young man like me to tell whether all that has happened is for the betterment of mankind. We are taught by the Educators, that at the present time we are in a Golden Age. The factors that made life hard for the human race twenty centuries ago have all been disposed of. We no longer have disease, hunger, poverty or crime. All we know about such hardships is obtained from our ancient histories. Every detail of our life is provided for so that we can obtain the maximum amount of satisfaction for a minimum amount of effort. Nothing has been neglected.

"Yet you and I have fled from it all. Why? Simply because we wanted something that modern civilization refused to grant us. For some reason we became, even as children, atavistic. We wanted to live like the savages of twenty centuries ago. We wanted to toss aside every invention that had made life a luxuriant certainty and take our chance with the animals and the birds. Scorning a house with electrical appliances of all kinds, with radio, television, monoplanes, synthetic food, central heat and daily amusements of every kind furnished by the Central Board of Education and Amusement, we have determined to make out of this cave a home. We know there is water down in the brook; there is such a thing as fire and all around us is wood in the shape of trees. Somewhere near us there must be food of the kind our ancestors ate, meat and vegetables. If that fails, we have enough synthetic food to last us a year, but just as soon as we can, we must change our diet. These books I brought with us tell how to cook with fire. We shall have to make some furniture and somehow make receptacles of some kind to cook in. Every day we will be doing a dozen things that no man or woman has done for a thousand, fifteen hundred years. No doubt we shall do them rather poorly and clumsily at first. Still we have brains and books to instruct us in these ancient arts and we shall at least be able to keep busy. We shall have to keep busy to prepare for the cold weather."

"It will be a lot of fun," said Elizabeth, though her tone did not indicate anything but the most serious mood. "It will be real sport to work out all these problems and learn to do all these new things that were so usual and commonplace centuries ago. It thrills me to know that I will soon be doing things that no woman has done for so many hundreds of years. Over eight hundred years ago it was found that synthetic meat could be made so easily that it did not pay to keep animals for food supply any longer, so they were all turned loose. Their ancestors were carefully housed and fed to give mankind meat, milk, shoes and clothes and now their descendants in large herds roam over the deserted farm lands. I am glad that we came. It is good to know that our vision has turned into a reality. I know that I shall never be sorry."

They talked on and on till the moon came up and finally they talked themselves to sleep out on the rock and did not realize what had happened to them till they awoke the next morning, rather stiff and sore from their cramped position and hard stone couch, but very happy in the fact that they had each other and that the cave was to become a home and that they felt an emotion which they knew was the old kind of love.

THE Librarian of the Congressional Library received the report that certain books had been stolen from the shelves. He was also notified of the fact that the assistant watchman had disappeared. Going to the card index of individualities, he was not at all surprised to find that Elizabeth Sellers, No. 237,841, had disappeared at the same time. He took her card out of the files, also the card of the watchman, Leuson Hubler, No. 230,900. After that he spent some hours of careful thought going over the pages of a small book in which he had kept some very personal records in pen and ink, something that at most only a dozen living men were able to do, for the art of penmanship had disappeared with the invention of the psychophone, an instrument that directly transferred and preserved the thoughts of a person, so that at any time in the future the small glass cylinder could be inserted into a radio and repeat the thought. This machine had completely supplanted the pen and the typewriter in the commercial, literary and educational life. Only a few of the savants were able to write, so the Librarian was more than safe in using that method to preserve his observations concerning No. 237,841 and No. 230,900.

After a week had passed he went out to call on Dr. Gowers and his wife. He was nearly thirty years older than they, but had seen a great deal of them socially, and admired them very much, especially for their ability to follow a certain line of investigation to its ultimate ending. In fact, he often stated that when these two were finished with the study of any problem, there was nothing more to do on the subject.

He found a charming family group out on the well kept lawn. There were the Doctor and his wife and three matronly ladies who wore the uniform of trained nurses, and they were all paying the greatest attention to a little girl who was playing with a rubber ball. Dr. Govers welcomed him cordially,

"I am so glad you have come," he said. "I want you to see our little girl, Llith. We have just taken her out on a permit and I am sure you will agree with me that she is far above the average for a four year old child. Having her with us has made the disappearance of Elizabeth easier to bear."

"Is Elizabeth gone?" asked the Librarian, in pretended surprise.

"She certainly has!" replied Dr. Helen Gowers. "She and a boy that was working in your library went up in the air a week ago for a ride over and they never came back." "Is that so? Perhaps they had an accident."

"No, indeed. You know as well as I do that the last accident to a plane happened over five hundred years ago. No! They did not come back, for the reason that they wanted to stay away. Elizabeth took a lot of her clothes and jewels with her. They were married in Pittsburg on forged permits."

"Why I never heard of such a thing !" exclaimed the Librarian.

"Neither has anyone else. Such a thing has not happened for over a thousand years. I had a hard time before I was even able to find out what such a thing was called. Its name was *Elopeutent*. It has been so easy for young people to enter into a companionate mariage and everybody is so glad to help and encourage them to marry, that anything like this just never was thought possible."

"I confess that I cannot understand it," interrupted Dr. Gowers. "We have tried to be like parents to Elizabeth and I am sure that if she and Leuson had only come to us, we should have been glad to listen to them and help them apply for their preliminary treatment and marriage license. Of course, things might have been delayed for a few months by Elizabeth's operation, but her pension from that would have made it very easy for them to live the rest of their lives."

"Looks like the action of some lower animal," said the Librarian.

"That's just what makes us feel so bad," said the wife. "They just went off like two animals. I only hope that they will come to their senses and return for a pardon, which I am sure will be granted. Perhaps they will have a logical explanation for their conduct. Have you time to come into the house? I want you to listen to the daily programme I have arranged for these three nurses who are going to care for Lilth under my supervision. I have filled twelve psychophonic cylinders with my orders and I believe that it can serve as a perfect example of correct child culture. It may be good enough to use in the National Educational Department."

"Of course," added the proud husband and father, "you understand that this is our first child and we have only had her for four days. Helen is so capable and enthusiastic and confident about her ability, that she feels she has already added to the knowledge of the world by preparing this programme."

"I am sure," said the Librarian suavely, "that she will make a perfect mother, and just as soon as I can, I will drop in for the evening and listen to the twelve records. Just now I shall have to fly back to the Library. I am very sorry about your sister. If you hear anything of her, be sure to let me know."

However he did not go back to the Library instead he went to see the Head of the Biological Maternity Units. The two men had been fast friends for many years. He spent several hours in conference, and when he finally returned to his office, he tingled with a strange enthusiasm such as he had not experienced for many years.

After that there was nothing for him to do but wait, which he did with a very definite impatience. I T was late autumn; to be exact, it was the last day of November. The Librarian, who lived amid his treasures, was listening to a psychophonic lecture on the latest evidence of life on the planet Venus; at least he was pretending to listen, but most of the time he was asleep. He suddenly was aroused to find that there was a man seated in a chair near him. He looked at him a moment and then jumped to his feet,

"Ey the Seven Sacred Caterpillars! If it isn't Leuson Hubler! My dear boy, where did you come from and where have you been?"

The young man smiled as he replied,

"Did our disappearance cause much of a sensation?"

"Not much. The Gowers were so powerful that they kept it out of the daily-radio-news-transmission-service. Elizabeth's sister feels the disgrace keenly."

"I believe that. Well, we are safe and so far are having a wonderful time, but I just had to have some things that I could not make and I knew they were in your museum, so, considering you are to blame for it al. I made up my mind to come and ask your for them. I want an ax and a saw and a hatchet, several iron kettles, a frying pan, a rifle, some ammunition and—oh—a lot of things that we shall need to get through the winter on."

"I hardly know what you are talking about," said the Librarian, "but if you know what you want and can recognize them, I will give you everything. But where in the world are you livine?"

"We are living in a cave."

"Like a pair of toads?"

"No! Like Gods! We are savages, Father, if you know what that means. We went back to the age of the Troglodytes. You are to blame for it all. You had me taught how to read and gave me a position where all the old books were available. You even picked out love stories of the ancient times and urged me to study them. It was you who first introduced me to the novels of Henry Cecil, such as The Adorable Fool, Wanderers in Spain, and The Passionate Lover. You urged me to dust and read Prue and I and Reveries of a Bachelor, and in the field of poetry you advised Idyls of the King and Songs of a Spanish Lover. I read those books when a boy and they made me different. And when I met Elizabeth Sellers, I met a girl who was willing to listen to something different and this is the result; so if it has been a sin and a crime to do what we have done, you are to blame."

The old Librarian smiled,

"Everything you say is true but it is only part of the truth. It has all been a wonderful experiment but the details had to be kept from both of you; otherwise you would not have been free agents; but before I tell you about it, let me assure you that I, at least, do not think that you have done anything wrong. Now this is what happened.

"About thirty-six years ago I had a daughter, and the same year my friend. the Head of the Biological Maternity Units, also took a little baby from the Nurseries. The two girls were of the same age and almost grew up together, as we were living next door to each other. We thought it would be a fine thing to give them a liberal education and so, by the time they reached fitteen years of age, they knew a great deal and more than was good for them. They were beautiful women, and they had some very beautiful and impracticable ideas. They were both in love with two nice young men who, unfortunately, were also more or less dreamers.

"At the time of the yearly examination of the young women to select material for additional ovamaters to supply synthetic babies, these two young women passed a wonderful examination and were ordered to the operating room. They would have been pensioned so liberally that they could have married and lived comfortably the rest of their lives. What really happened was that they both committed suicide the night before the operation. You may not be familiar with that word, so I will tell you that it means to kill oneself. We were all so shocked by it-it was so unusual, that we kept the matter quiet; but it made a deep impression on my friend and myself. We talked the tragedy over and hastily decided to make what amends we could. Secretly, my friend operated on their bodies before we sent them to the National Crematory, and then he started to grow their children. It was my idea that he should continue with this work till he produced two children, a boy and a girl, and then destroy the two ovamaters. This was done, and as soon as I could do so, I applied for a baby and selected you. In order to avoid suspicion, we arranged to have the girl placed with the Sellers family. They had one daughter and wanted another. Unfortunately the parents died before the little girl was mature and part of her care was assumed by her sister, who was married to Dr. Gowers. But the sister was so busy with her experiments that she did not have much time to spend on the little one and she just ran wild, most of the time with you. The escapades of you two children nearly drove us all insane-for example, the time you broke the time record for a non-stop flight around the world, following the equator. Still, thanks to my early training, you wanted to be with books more than anything else, and Elizabeth was always willing to hear you talk and believed all you told her. You seemed rather slow, so I had Elizabeth put on the list for operation. That caused the explosion. My dear old friend, who is a sort of a grandfather to Elizabeth, is as pleased as can be about it all. He feels that it is a wonderful atonement to two dead women and a splendid and unique experiment in biology. Without your knowing it, we gave you a chance to be happy. It is no wonder you say that you have been living like Gods."

"So you two planned it all?" asked the astonished young man.

"Just about. Of course we did not know how you two would work out the details. We knew that you would have to get beyond the reach of the Government to even start. If the authorities found out where you were and what you had done, you would probably be placed in solitary confinement for life, though that is a punishment that has not been necessary for a thousand years. In this case, however, they would feel that it was imperative. Suppose your conduct became known? What if the young people adopted it as the latest fad? You can readily see that the entire economy of the human race would be disrupted. Of course you can depend on two old men to keep your secret, but as far as the world is concerned, you had better consider yourself dead, for you must not come back."

"We do not want to come back, but I cannot see what harm it would do!"

"Just this. It would disrupt our present civilization. Suppose that Elizabeth has a child. The last birth occurred in 3009. But before that, for hundreds of thousands of years every child was born with a mother. The desire to give birth to a child was as much a part of their lives as the desire to eat and sleep. For nearly a thousand years, all women have been sterile and have had to be content with synthetic babies, but do you suppose that the desire to have babies of their own has disappeared from their mind and soul? No, indeed! It is still there and it is a powerful desire even though it is dormant and subconscious. If Elizabeth should appear in Washington, carrying her baby, if it became known that she had actually given birth to the child and that she had a husband who was the child's father, the women would wreck the Government. The older women would become wild because they had been deprived of what would seem to them to be the greatest privilege and blessing of their sex, while the young girls would refuse to accept the dictates of our government and would try just as hard as they could, to follow Elizabeth's example. There would be chaos."

"Then why did you secretly urge us to go on with it?"

"For two reasons. First as a retribution to your mothers, who decided to kill themselves rather than go through with the operation, and second, because, as scientists, we wanted to make sure it was still possible for a woman to have a child."

"Do you mean that you thought there was a doubt?" "Certainly 1 And we had a right to think so. For at least forty generations these physiological functions of both sexes have been unused. We were unable to tell what would happen if a normal man married a normal woman. We did not even know if there were any normal people any more. We tried to find out what the physicians and biologists thought about it, but there again we were in trouble. No one had thought about such a thing for so long, that they could only guess, and, being scientists, they felt that each had to guess differently from the other."

The young man laughed,

"I think we shall be able to tell you the answer some time."

"That is the pity of it. You will be able to tell my friend and you can tell me, but you cannot tell the world. We should be pleased if you had a child, and we would try to arrange to secretly get you a child of the opposite sex so they could grow up together and marry at the right time. If we were only younger, we might even assist you in forming a small race, but it would have to be a race of savages, educated savages, but none the less composed of individuals who had to live under the same conditions that savages used to live under. Well, we have talked enough and I know that you are anxious to return to your wife. Let's go and get whatever you need from my private museum. I want you to take anything you need. We do not want Elizabeth to suffer in any way. Tell her the story I have told you. Tell her that we love her and want her to be a brave girl. Just as soon as you go, I will step over and see her grandfather. Be sure to leave me a good map of just where you are. I wish there was some way of communicating with you, so we could be sent for—if you get into trouble of any kind. We will prepare a medicine chest for you."

A hour later the young man jumped into his plane, kissed the old man good-bye and started out for his long trip back to the cave. In the monoplane were a number of things that would help make the winter more endurable. As soon as he left, the Librarian started out to make a midnight call on his old friend and the two talked till morning; and the things they talked about were the things that had interested young folks thousands of years ago.

The winter was severe. With all his education and effort and even with the use of a lot of common sense, Leuson could not keep the winter from being a hard one. The chimney smoked, the food spoiled, the roof of the cave leaked, the wolves killed and ate their little pig, their few chickens refused to lay, the traps did not catch rabbits regularly, and never a day passed without some new form of trouble, unforeseen and unpreventable. Yet Leuson Hubber was happy with his wife, Elizabeth Sellers, because they lived in a home and the thing that made the cave a home was love.

The winter passed and the spring came. The young man wanted to make another trip to Washington—to see if he could get help, advice or medicine. His wife refused to let him go: she felt that she would die if she had to spend a night alone. Together they studied over the old books and tried to prepare themselves as best they could for the event they now were certain had to be faced. Leuson captured and tamed a wild goat and in May she gave birth to a kid. He fet easier. No matter what happened, there would be milk. Elizabeth laughed at him and said she would tend to that part of the programme, but Leuson only took better care of the goat, and learned to milk it. He also ventured to send a radio mesage to the Librarian.

June was warm. Elizabeth rarely left the mouth of the cave. For over three weeks she had not been down on the meadow. Every day Leuson would take the goat and the kid down to the pasture. Finally he decided to keep the goat in the cave and bring it grass. He did not want to lose the goat. Elizabeth kept on laughing at him. He would laugh back at her and then go down the path with sorrow in his face and fear in his heart.

On the last of June, Elizabeth stayed in her bed. Leuson stayed by her side. They talked and now and then he gave her milk, warm from the goat. He did for her all he could and she helped herself as well as she was able to remember the instructions in the old books, and all through the night she kept on telling him that she had been happy in her home and their love and that she was glad she was going to have the baby and how proud she was that he was the father of the baby and how much she loved him and how proud they were going to be of their child—and when morning came she died. The cause of her death was a simple matter. The average physician of the nineteenth century could have saved her. The only reason for her death was that she had given birth to a baby and there was no one there who knew how to care for her in a scientific manner.

Leuson Hubler, the first Father that the world had known for a thousand years, picked his daughter up and carried her into the sunshine. There, on the rock ledge, the kid was nursing the goat. The goat was bleating from hunger and the joy of nursing. Leuson gave her a handful of grain and let the baby drink with the kid.

As he knelt there, giving his daughter her first food, two old men toiled up the steep path. The Librarian and his friend were bringing the medicine that would have saved the life of the first Mother.

They were just a little too late.

 $\mathbf{T}$  HAT fall, in the city of Washington, the National Society of Federated Women held their annual meeting. Five thousand of the leaders of their sex had gathered for the meeting and every woman in the nation was listening to the proceedings over the radio. It was the one time in the year that the women felt fully their sex consciousness. All through the year they believed that they were the equal of the male sex, but during this week they knew they were superior in every way. The usual programme was presented, the usual leaders of the feminine sex introduced. It was not till Thursday afternoon that the unusual occurred.

A man was introduced to the great audience. It was a distinct novelty, as only rarely was a man invited to take part in the conference.

Leuson Hubler walked out on the platform, carrying a basket which he placed behind the President's chair. Then he started to talk in a voice so clear and musical that there was hardly any need of the loud speakers, and even as he talked to the five thousand leaders of womankind, many more thousands of women in all parts of the land listened to his words over the radio.

He started to tell them about the old days. He talked in simple language, with well chosen words. Largely he repeated what he had said to his bride the first evening in front of the cave. He told about the gradual growth of unrest in the women and selfishness in the men and how with the companionate marriage had come a gradual deterioration of the human race. He went on to explain the gradual growth of the Sterilization Laws and how finally the Synthetic Baby was thought not only necessary, but highly scientific. Next he told of the disappearance of the home and the gradual death of family love. With the home and love had disappared the father. There remained only houses in which lived men and women who were "married" companions and nothing else. They had children, the seed of dead women, who had never known a husband's love. The children were loved only as permit children.

On and on he talked and as he talked there arose in the hearts of the women who listened a strange unrest and hunger for something that had once been their heritage. They listened and yearned for something they had lost a thousand years ago. Then he told them about Elizabeth and himself ; how they were the children of two women who had killed themselves rather than to be denied their righteous inheritance. He told how they had loved each other as boy and girl and as young man and woman had fled to the wilderness rather than submit to the laws of the land. He told how they had lived and loved in the cave, and how they had wondered whether it was still possible for a woman to give birth to a living child: how they had tried to prepare for the emergency-about the goat in case anything happened.

The five thousand women silently rose to their feet: they crowded around the platform where he was weaving his magic spell—and he told about that first night and then about the last night—how she had said that no matter what happened she was repaid by the love and happiness that had been hers that year in the cave home—and then he told how she had died, but that she might have been saved—and that even in her death she had shown to the world that a normal woman could still give birth to a normal child—and then—

He reached down into the basket and, picking up his daughter, held the baby high above the heads of the five thousand women and he showed them a baby, born of the love of a man and a woman in a home.

For a while the hall was silent.

The women looked at the baby, and as the tears streamed down their cheeks, they knew at last what they had been wanting all those thousand years. They knew, but they needed a leader to tell them.

And Dr. Helen Sellers Gowers, large, efficient, determined, shouldered her way to the platform and stood by the man and the baby and said :

"This is the child of the woman I called my sister. She is dead, but we will never forget what she has taught us. I know what I feel and I know what you feel. It is too late for many of us, but it is not too late to save our boys and girls. There must be no more synthetic children, no more companionate husbands, no more mere houses. We can rule the country because we are the stronger. Let us go to Congress and tell the me what they must grant us."

And as they marched down Pennsylvania Avenue, the women of the nation cried in unison:

"Give us back our homes, our husbands and our babies!"

# BARON MÜNCHHAUSEN'S SCIENTIFIC ADVENTURES By Hugo Gernsback

## 9. The Cities of Mars



F there is one thing that annoys me, it is a nosey reporter. To be sure, they are harmless folk, are reporters, and suave and well-mannered as a rule, too. But somehow their eves always appear to me as gimlets

and their noses as huge co.kscrews, but then those are the characteristics of the tribe, and really they can't help it. It is their business to drill holes right through your mind, and once their corkscrew noses have twisted themselves into your confidence they pull and pull till something comes up. A reporter can always dig news out of you, even if there's no news to be had. All of which might be of interest to you, and then again it might not. At any rate, the editor of the Yankton Bugle, who has heard about Münchhausen, sent a reporter to my laboratory in order to "write me up" and to find out if Baron Münchhausen was fiction or truth. Not that it was the first time that this particular reporter had called in vain. For I have a deep-seated aversion to the Bugle, which aversion includes everyone from the editor down to the job press. Hence I wasn't "in" to reporters heretofore. But on this occasion the reporter, who is a live one, succeeded in running the blockade. He "made up" as a water meter inspector, and as both the water meter, as well as my radio station, are located in the basement of the house, he had but little trouble in "torpedoing" me. Once established in a chair there was

nothing to do but to submit to his tortures.

Of course, he did not believe that there was such a thing as Münchhausen, who was supposed to live on Mars just now and who was supposed to send nightly radio messages to earth, which are relayed to me from the moon by an alleged relaying plant located there. MANY of our astronomers have noted from time to time that immense sandstorms frequently sweep over the face of the planet Mars. Since these sandstorms seem to cover a great amount of place, it must necessarily mean that the sand is very fine there. How intelligent beings might live permanently in such a soud-loaded atmosphere, is very elevery houshow that this installment.

The range of telescopes, even within the last fifty years, has increased enormously. How far can science go in increasing telescopic magnification?

However, the reporter was willing to obtain firsthand evidence for his paper, and if I did not object very much he would stay till 11 p. m. in order to "listen in." To strengthen the argument he pulled out some two for 50c. Perfecto's (reduced to 40c. Saturdays only at Frank Levoy's cigar store on Main Street). As my nargileh (Turkish water pipe) wasn't working, for lack of proper ammunition that evening, the argument proved convincing and I bade the reporter, whose name was Bill Snickles, to make himself at home. I explained to him all the good points and qualities of my radio receiver, and after the second Perfecto I was willing to let him photograph the station. He called up the office for the staff photographer, and after the flashlight had been taken it became time to adjust the instruments. In another three minutes Münchhausen would be calling. I had placed an extra set of 'phones on Snickles' head and I could see that he was breathing hard with suppressed excitement. I had keyed him up to such a pitch that when my chime began striking the first stroke of eleven he jumped clear out of his chair. But I smiled a very superior, benevolent smile at him, as a father smiles at his uncomprehending babe. I then leaned back comfortably, toyed a bit with the Harmonic Ultra-Amplifier, adjusted the Selenium Vapor Enforcer, and turned once more the knobs of the coupled inductance balancer to make sure that I was tuned in for 90,000 meters-the wavelength used by Baron Münchhausen.

The chime had sounded its last stroke. In another second the dear old gentleman's voice would greet me as usual.

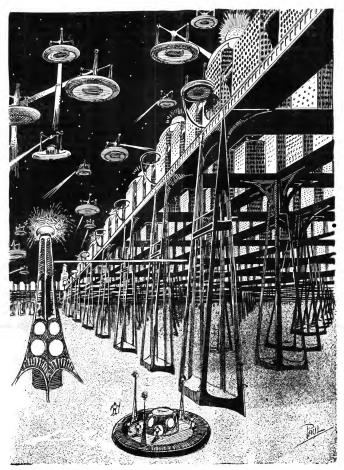
Have you ever wished to "show off" to your friends or to your relatives and the "show off" failed to materialize? Have you ever experienced the cunning feeling of an icy cold wave racing up and down your spine. to be followed immediately by a hot blast up and down

the selfsame spine? And has the perspiration broken out all over you at the contemplation that the "show off" was a fizzle? Yes? If you have, you know exactly how it feels.

At 11:05 p. m. I began to wonder why it was so hot in the room. By 11:10 p. m. I was taking a Turkish bath. By 11:20 p. m. I calculated that my private

temperature must have gone up to somewhere near 269° Fahrenheit, rising steadily all the while. By 11:30 p. m. I wasn't sure whether I preferred calling an ambulance or jumping into the ice covered pond in front of the house.

Münchhausen simply didn't "call." What was wrong? Why had he failed me for the very first time, just when I could least afford it? For the first time since I knew him I felt bitter toward him. What had happened?



1, . all buildings and structures on Mars, with few exceptions, are located 500 feet above the ground, in order to make life bearable. Thus all "cities" are built high up in the air; this feature gives the stranger his greatest surprise.... We aw thousands of these flyers gilding posielessity through the this air, their feature gives inde gilding posiping juip over the sky and over the ground. And there was Snickles with a sarcastic grin spread all over his bird-like face, making biting remarks all the time.

"Maybe the ether gave out, what?" he mocked. Or: "Maybe Münchhausen has a Martian frog in his throat and can't talk!" Or else: "Isn't i possible that the message became lost in transit? In that case I would suggest that you put an ad in the *Bugle's* Lost and Found ..."

That was the last straw. He didn't finish the sentence and he didn't wait to take his hat either. He went out like a blue streak, with me at his heels. But reporters, among other accomplishments, must be good runners. He is. At any rate, I did not catch him. Disgusted and in a white rage, I went to bed.

My ruffled feelings were not particularly smoothed the next morning when my young brother brought me a copy of the *Bugle* while I was still in bed.

Snickles had certainly outdone himself. The whole town would choke with merriment when they would read the account, there was no doubt about that. The headlines were enough:

### I. M. Alier Makes Stupefying Invention.

### Receives Soundless, Voiceless, Messages from Mars.

### Alleged Hero, Münchhausen, Speechless with Surprise.

### Münchhausen Says He Ain't Sayin' Nothin'!!

And so on, and so forth. The article was written, so excruciatingly funny that I had to laugh myself, despite my rage. But the laugh froze to ice when my eyes had passed over the line where Snickles had written ironically:

"Undoubtedly Münchhausen was asleep at the switch !"

With one bound I was out of bed and was racing mally down to my radio barefooted. I gave one look at the lightning switch in the corner of the room and almost collapsed:

The switch was grounded and had been grounded since noon of the previous day!

For you may know that the Fire Underwriters nowadays require radio stations to have lightning arresters in order to protect the building from lightning. Thus when your station is not in use you simply connect the aerial to the ground by throwing a switch, and no damage can be done by a thunderbolt. Not only that, but in this condition the aerial becomes really a first-class lightning rod.

Sad to relate, however, certain idiots are apt to forget to throw the switch over when trying to receive messages. I being among them that evening. For when the reporter called so unexpectedly, I forgot all about the switch and never bothered to look around to see in what position it was.

Münchhausen had called, of course, of this I was certain. The message, however, had flown from the aerial directly to the ground, never entering my receiving instruments. Lost and lost forever! And my thoughtlessness had made me the laughing stock of the town on top of it! It was maddening. Right then and there for the next ten minutes I had what my little sister very appropriately designates as a series of rather violent "conniption fits!"

\* \* \* \* \*

T HAT evening, promptly, as always, Münchhausen "called." He did not waste much time in preliminaries, but went right to the point:

"Alier, my dear boy, I can't begin to tell you how wonderful this planet Mars is with all its marvelous inhabitants. Flitternix and myself are as in a trance half of the time. Our brains simply cannot digest all the thousands of wonders we see around us every minute. For a poor untrained human mind to be suddenly transplanted into a civilization hundreds of thousands of years ahead of terrestrial civilization is no easy matter. At times we are positively numb with astonishment and the more we see and learn the less we feel we know. Every new marvel opens up a dozen new unfathomable avenues, each one equally puzzling.

"But to proceed. Yesierday I explained to you how we had our first Martian meal at our host's residence and how we found that gaseous food that you don't need to chew is vastly more nourishing and satisfying than solid food. It does not overload the stomach as do solids, and the digestion is greatly improved. The gases liquely in the stomach, of course, but the stomach never becomes distended. Besides, the Martians, trained rigilly from earliest childhood, know just how much gaseous food they can assimilate. This, I understand, is one of the reasons why the average Martians live over 150 Martian years, which is a period of 300 terrestrial years.

"After dinner, we were conducted to the roof of our host's mansion, where we made ourselves comfortable in the large transparent chairs scattered around beneath a cool, green, silky-appearing canopy. As I mentioned to you previously, the Planet Ruler's mansion resembles somewhat a colossal cathedral. The roof is about 250 feet from the ground and the entire structure rotates slowly around on its axis. This is the reason: While the Martians have no religion whatsoever, they know what we have known for some time-namely, that life on all planets is absolutely dependent upon the sun. Extinguish the sun today and all the planets throughout our planetary system from Mercury down to Neptune will become dead worlds. Without sunlight the rivers will cease flowing within three weeks. Within six months all waters on earth and Mars will have frozen down to the bottom. The vegetable kingdom will have ceased long before that and the animal kingdom, dependent upon the vegetable kingdom, will die even a more rapid death. In less than two years the last surviving being on any of our planets will have passed out of existence. There can be no organized life, as we know it, without the direct influence of a live sun.

"While the Martians are by no means sun worshippers, they nevertheless have a deep-rooted feeling for our luminary. This is strikingly illustrated by the fact that the Planet Ruler's mansion is constructed in such a manner that powerful machinery revolves the entire structure silently during the entire Martian day; the first rays of the morning sun thus shine into the Ruler's private rooms, and as the sun keeps on rising, the house keeps pace and thus the entire day till the last sun ray disappears at the western horizon, the Ruler's windows are hathed in sunlight. During the night the house does not revolve.

"The day we were on top of the Ruler's mansion was still our first day on Mars. It was then in the early afternoon, after lunch time.

"Down below we looked upon the 'city,' which seemed to be laid out in form of a vast semi-circle, as far as we could ascertain. To the west we could just glimpse one of the waterways.

"We stepped to the balustrade and peered dowin, completely stupefied with what we saw. But Flitternix, his mind full of astronomical observations, called my attention to the heavens and I followed his command reluctantly.

"'You will observe," said he, pointing at the sun, 'that it appears quite a bit smaller than when seen from the earth. Also it does not appear yellow-white, as it does to terrestrial inhabitants. You will note it has a rather reddish hue: that is because we are now a good bit further away from it, a matter of over 60,000,000 miles further than on earth. In other words, we are now one and two-thirds times as far away from the sun as we are on earth. But you must have observed how warm it is everywhere on Mars, as far as we have visited it, and that the day appears fully as bright, if not brighter, than on earth. Naturally you will wonder, for on Mars, as well as anywhere else in the world, certain physical laws hold good. Thus heat and light diminish inversely as the square of their distance; in other words, a 16 candlepower lamp two feet away gives only one-quarter the light (four candlepower) of the same lamp if seen at one foot away. Heat acts in exactly the same manner. Then why is it that the day is as bright, and the heat as great as on earth, although we are twice as far removed? According to the physical law just mentioned Mars should only receive fourninths of the light and heat from the sun which the earth receives. Why does it get more? Early astronomers on earth reasoned with a similar logic, and they had thus come to the conclusion that as Mars is so far removed from our sun, the temperature on Mars must necessarily always be far below the freezing point. Accordingly they reasoned that life on Mars, as we understand it, was not possible. But then the telescope suddenly revealed that the Martian snowcaps do melt every spring, and if this is the case the temperature even in the polar circles, at times must be above the freezing point. But why?

"The answer is simple enough. The earth has a very dense atmosphere with many clouds. On Mars the reverse is true, it has a thin atmosphere and practically no clouds all the year around.

"Professor Lowell estimated that over the earth as a whole, the proportion of actual to possible sunshine for the entire year is 50 per cent. In other words, the sun only shines practically one-half of the time it might if there were no clouds. On Mars, on the other hand, the sun shines 99 per cent of the time. Also, there are no cooling rains or snows in the temperate zones to chill the atmosphere, consequently a great deal more heat is absorbed and retained on Mars than on earth. Furthermore, an enormous amount of energy is lost on earth, where the sun rays must travel through a dense blanket of air, whereas the air on Mars is thin and clear. For this and other reasons, too technical to dwell upon, we find that light and heat are practically the same on the two planets, with several points in favor of Mars.'

"WHILE I was still turning these facts over in my mind, Flitternix suddenly pointed to the sky and shouted rather excitedly:

"'Look at the moons!' I followed his finger and I saw the wonderful spectacle of two full moons shining in the sky. It was still light and for that reason the effect was not as wonderful as the one we now witness, when we see Phobos and Deimos during the night time. At that particular time the moons shone as pale as our own moon does in a bright afternoon with the sun still up.

"Phobos, the larger of the two moons, is only 4,000 miles distant from Mars and, as I mentioned before, it revolves around Mars in the incredibly short time of seven and one-half hours. In a single Martian day it therefore revolves three times around Mars, which means it rotates faster than Mars itself. Although it revolves in the same direction as Mars and the rest of the planets, namely, from west to east, on account of its greater speed it appears as if it were moving from west to east. Its speed, to an unaccustomed human observer, is really disquieting. While we were looking on we could actually see how terrifically fast Phobos moves. When Flitternix first called my attention to it. it was quite high up in the sky. Ten minutes later we watched it plunge with express speed below the eastern horizon! It is positively uncanny to see a heavenly body that looks as big as our moon perform such celestial gymnastics, but the fact remains. Deimos, the smaller of the two moons, revolves at a distance of 12,-480 miles from Mars. But as it measures only about six miles in diameter, it naturally appears quite small as seen from Mars, even when full. When we saw it that afternoon it did not appear very much brighter or bigger than the evening star as seen from the earth. As a matter of fact, it does not look like a moon at all to Martians, as we understand 'moons'; it looks rather like a very bright star. During the night its face does not always appear as a disc to the naked eye, even when it is full. It is too small and too far removed. Nevertheless, it is a true moon.

"Having finished our contemplation of the sky, we turned anew to the view directly below us. Of all inspiring and majestic sights, I do not think that there is one that can rival a Martian 'city'. I once thought that New York, seen from the Woolworth building, was about the grandest view one could ask for, but it appears positively ridiculous compared with any of the Martian great centers.

"To begin with, the Martian cities are not built upon

the ground, for a very important reason. Nearly all of the Martian continents are deserts, irrigated only in comparatively small sections near the great waterways. The land, therefore, which is practically flat, is sandy, as all true deserts are. For ages upon ages this desert sand has been rolling back and forward over the planet till it has lost the characteristics of real desert sand as you know it on earth. It has become a fine, impalaplic dust, extremely choking if it finds its way into the lungs.

"This fine desert dust is the greatest bane of the Martians and they fight it constantly and heroically. But as nothing but vegetation—which, again, is dependent on water—will permanently stop the dust, the fight is almost hopeless, for the Martians lack water to irrigate the entire planet. Naturally the dust is not quite so bad near the waterways, but the large centers spreading for a few miles inland are not thus protected, especially if the wind blows from the land side over a broad expanse of desert. Even the slightest breeze brings its cloud of choking dust and a strong wind sometimes obscures the sky.

"But when it storms, pity the poor Martians! Through the large telescopes on earth, 40 million miles away, earth's astronomers have frequently seen huge sandstorms sweep over sections of Mars as large as France! Can you imagine what such a storm means? We witnessed one yesterday and it was awe-inspiring, terrific.

Hours ahead of the storm the Martians ran for their sheltered lofty houses and closed everything airtight. All traffic on the canals, on the ground, as well as in the air, ceased for two hours, while the storm was in progress. From the eastern side of our host's windows we saw the approach of the dust. It came rolling on in gigantic red clouds like an ocean, and although it was forenoon, the sun was blotted out almost entirely. The dust is so fine that you could hardly hear it as it was hurled against the thick window panes in immense quantities. On and on it came, seemingly without end: sometimes we would get a glimpse of sunlight, but oftener we were plunged in total darkness. After the storm had lasted for two hours it stopped as suddenly as it had appeared and the sun smiled down on us again as before.

"Within ten minutes after the storm, myriads of aerial flyers could be seen spraying the buildings and structures with compressed air to clean out the red dust from the corners where it had accumulated. When we looked around this morning there was hardly any evidence of the terrific sandstorm of yesterday. Of course, such storms as the one we witnessed are rare and do not occur more than six times a year; Martian houses and structures are built with a view of getting rid of the dust as quickly as possible when it does come in avalanches.

"Accordingly all buildings have sharp gable or pyramid roofs, and every wall and balustrade is built with a gable. Every window sill points downward at an angle. There is not a structure on Mars that is expeed which is flat, or which has a single flat projection extending from it. Everything is built to get rid of the dust as quickly as possible, for this fine and extremely dry sand slides down a sharp incline with great rapidity.

"From the foregoing you will easily understand that the Martians cannot permanently dwell near the ground. It is an exceptionally calm day when your Martian can walk on his planet without his respirator hood over his head. From this it follows that as he cannot dwell upon the ground, and as intelligent beings as a rule do not care to burrow themselves into the ground, there is but one thing to do, and that is to go above the surface of the ground. Indeed, this is precisely what the Martians have been forced to do for hundreds of thousands of years.

"It was soon found that the ordinary dust did not usually rise higher than 400 feet above the surface of the planet. At this altitude the air is sandproof except for such severe storms as the one we witnessed yesterday.

"'For this reason all buildings and structures on Mars., with few exceptions, are located 500 feet above the ground in order to make life bearable. Thus all 'cities' are built high up in the air, and it is this feature which gives the stranger his greatest surprise.

"Imagine immense metal towers stretching skyward mile upon mile, supporting a vast city raised 500 feet up in the air. Imagine these towers partly roofed over with metallic roadways and buildings and you have a faint idea of how a Martian 'city' appears.

"When we had first 'landed' on Mars we naturally thought that we had touched the ground. As a matter of fact, we had not 'landed' at all, but we were still 500 feet away from Mars proper. We simply had descended in the aerial Martian city, but this we did not know till later.

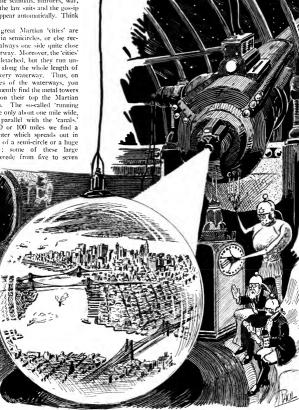
"Every building is constructed of the universal transparent material tos, giving the structures a curious but pleasing appearance. The transparency of this wonderful material is so great that it is possible to actually look straight through an entire building, wherever there are no obstructions of opaque objects. I might say that the latter are rare, for the Martian loves nothing better than transparency, and for that reason he builds nearly every object out of tos-from a table down to the floor, which is also transparent. You might think that such a house, open to everybody's curiosity, would bring with it many delicate as well as embarrassing situations, but this is not the case-at least not for the Martians. These people have long since learned that anything worth doing cannot possibly be open to criticism from fellow inhabitants, whereas closeted, nontransparent rooms make for nothing but laziness and vice. When all of your actions are open to the entire world, you are more apt to lead an upright life than otherwise. For that reason no false, make-believe civilization exists on Mars as it does on earth. For that reason, too, the Martian is an upright, healthy, truth-loving individual, not a hypocrite as are ninetenths of the human race. The Martian has no secrets, he knows no vice, he has no scandals, and he has little occasion to feel ashamed of himself. Why? Because everyone can see at all times what he is doing.

"Pick up any one of your newspapers. What do their text pages contain? Seventy per cent scandals, murders, war, law suits, gossip; 10 per cent sports; 10 per cent business; 5 per cent science and advancement, and 5 per cent miscellaneous subjects. If you place

your whole humanity in transparent houses, the scandals, murders, war, most of the law suits and the gossip will disappear automatically. Think it over !

"The great Martian 'cities' are laid out in semicircles, or else rectangles, always one side quite close to a waterway. Moreover, the 'cities' are not detached, but they run unendingly along the whole length of nearly every waterway. Thus, on both sides of the waterways, you will frequently find the metal towers bearing on their top the Martian buildings. The so-called running cities' are only about one mile wide, running parallel with the 'canals.' Every 50 or 100 miles we find a large center which spreads out in the form of a semi-circle or a huge rectaugle; some of these large 'cities' recede from five to seven

miles from the waterways. Of course, these large 'cities' are connected on both ends with the 'running cities'; for that reason there is no beginning and no end to the Martian 'towns.' Nor do they go by any particular name. Each spreading city has a number, while



Little by little our host manipulated certain knobs and again the view was magnified enormonaly, while in the center we now beheld a marvelous view of the City of New York, as if viewed by an aviator a few thousand feet above the earth.

the running ones, located between the spreading ones, have a figure and symbol like our letters. Thus the Martian Capital at which we reside at present is termed 1. The first large 'city' toward the south is termed 2. The 'running city' which connects cities 1 and 2 is termed 1A. Of course, the Martian symbol is not 'A'; this is merely my equivalent or my own translation for it. The numbers of the houses for quick orientation are termed in 'fractions', according to their location. Thus, for instance, a house located in the 'running city' 1A is 1A

numbered  $\frac{1}{10}$ . This means that it is the tenth house

south, counting from the 'city' 1. As every Martian knows the location of every 'town,' the numbering system is simple and does not lend itself to confusion.

"As nearly all of the land on Mars is practically desert, except that near the waterways, it follows that no 'town' ever reaches more than 10 miles inland. This fully explains the vast 'connecting cities.'

"All the streets run perfectly straight and cross at right angles, American fashion. All buildings and houses are detached from each other, none are ever

## 10. The Planets at Close Range

WHAT is modesty? From childhood up I have been taught that this quality was more or less of a virtue, but developments of late cause me to believe that it is hypocrisy, plain and simple. I have found since, that modesty is something in us which we wish to make other people believe and which they realize perfectly is not so, or perhaps it is trying to make the other fellow believe something that you know isn't so. All of which might have a passing interest for you and then again it might not. Perhaps the above may have a certain bearing on this story and on the other hand it might not.

I have no fault to find with the Martians, and I belive: implicitly what Münchhausen has been telling us about the utter frankness of the Martians and their habits. Only it doesn't work on earth, or at least it doesn't work in Yanktown, As will be remembered, Münchhausen told us in his last talk that the Martians live in transparent houses, for reasons best known to themselves. As will also be remembered, he told us that anything that is worth doing—on Mars—is worth doing with everyone looking on. He told us that nontransparent rooms.make for nothing but laziness and vice; also that when your actions are open to the entire world you are more apt to lead an upright life. We were told that for that reason no false make-believe life was lived on Mars as it is on earth.

I tried the Martian recipe the other day, and I must confess here that it was a dismal failure. Everyone knows, of course, that everyone else is apt to take a bath once in a while for strictly personal reasons, the only difference being that the frequency varies with individuals, according to taste and the available supply of water and soap. I know that your take a bath and you know that *I* take a bath; certainly there is no secret about that. Nobody should find fault with such universal custom. But when I tried it the other day, law found built close together. Usually eight buildings constitute a 'block,' three to each side, with the center space left open.

"The 'blocks' are separated by wide arched roadways; wherever two of them cross each other, there are usually two bridges flung diagonally across which meet in the center.

"The roadways themselves are of a heavy metallic construction and are entirely perforated with round conical holes about one inch in diameter with about one inch of metal between them. By this method, all dust and dirt falls through the streets to the ground 500 feet below. Thus the roads appear clean perpetually, even after a sandstorm. The houses ..... but, hello, my chronometer tells me that I have but ten seconds left to talk before the telegraphone wire on my radiotamatic on the moon will be full to capacity. Well, good night, my boy, till tomorrow, good night!

\* \* \* \* \* \*

The usual rap, r-r-r-ap, f-flum, f-flumm and everything was quiet once more.

have ing my bathroom window wide open, it somehow didn't r less work out according to the Martian recipe. At least e me Officer Mulligan, on the beat, who I believe had never

work out according to the Maritan recipe. At least Officer Mulligan, on the beat, who I believe had never read about the Maritans' habits, didn't approve of my custom and very promptly arrested me when a big crowd collected in front of my bathroom. You see, it happens to be located on the ground floor. I have since given up every attempt to convert antiquated humans living on an uncivilized globe, to Martian standards of civilization. Perhaps in a hundred thousand years from now, humanity will not feel so peevish about it, but until that date I shall believe in the proverb, "When in Rome bathe as the Romans bathe."

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That evening, promptly, as usual, Münchhausen ("called." On the ninute of 11 p. m., the familiar whining, screeching sound reverberated in my 'phones, and immediately the Baron's sepulchral rasping voice was heard once more.

"Good evening, my dear boy; mighty sorry I had to cut myself so short last night but, at that, I believe that the telegraphone wire on my radiotomatic was full to capacity before I stopped speaking. If my memory serves me right, I believe I had been telling you about the elevated cities on Mars-and how the Martians do away with their choking dust filling up the atmosphere near the ground. I told you how the elevated Martian cities had perforated, metallic streets so that the fine dust would filter through the perforations, thence to fall to the ground. Possibly it occurred to you that in a few hundred years this dust, settling on the ground below, would rise high enough to fill up the 500 feet of intervening space between the ground and the elevated streets. If no means were taken to do away with such accumulating dust and sand this, of course, would be the result, but nothing of the sort happens, for

Martian ingenuity naturally precludes any such occurrence. But how is the sand and dust done away with? It is a very simple matter indeed. Mars, as we know, is a very ancient world, which has cooled for centuries back. There are no more live volcanoes on Mars, for the very simple reason that the inside of the planet has cooled ages ago, just as your moon is cooled today. Take the earth, which is a much younger heavenly body than Mars. On earth, as yet, the interior is in a molten state, proven by the fact that volcanoes, as well as hot springs, still exist. Hot gases must naturally abound, for if this were not the case there would be no pressure to force the molten lava through the craters of the terrestrial volcanoes. But a molten mass as well as hot gases take up room. Suppose the interior of the world would cool today; immense hollows or voids would naturally be created inside of the earth. This is precisely the case on Mars. It now has immense hollows and voids, and these are used for many different purposes by the Martians, in their conquest of their dying world, as I shall show later.

"For one thing, every few miles beneath all Martian cities immense funnel-shaped holes are excavated, ill one of the voids is reached. The openings of these holes are constantly kept clear by the Martian engineers. How simple, then, is the thought of pushing the surplus desert dust and sand into these holes, to do away with the sand nuisance. Very ingenious means are used in thus getting rid of the dust, and after every sandstorm, which are more or less frequent; the surplus sand and dust rolling on from the open deserts is forced into these openings as fast as it accumulates. Of course, it is impossible to thus get rid of all the sand, but it helps to a certain degree to make life bearable on the planet.

"TOU will remember in my report of last night I that Flitternix and I were on the Planet Ruler's mansion on top of the building looking down, that evening, on the vast Martian capital that lay below us. We were watching in amazement the gravitationless flyers, which are used by the Martians almost exclusively for their transportation. I have told you previously that these flyers are flat, pancake-like, metallic bodies with three masts spaced equally distant from the center. We saw thousands of these gliding noiselessly through the thin Martian air, their intense yellow propelling light shafts playing all over the sky and over the ground. It is indeed an inspiring sight to see thousands of these flyers in the air all the time, and the spectacle becomes even more amazing when night comes. The yellow emanation rays are highly luminous, and for that reason no other searchlight is required. As long as I have been on Mars I have never witnessed a collision, although these astonishing vehicles fly so close to each other that one sometimes thinks they must collide. Each Martian building on one of its sides has a metallic landing platform extending at right angles from the building. There the flyers land to deposit passengers or freight.

"We were watching this amazing spectacle; it was in the early evening and the sun had just set. Being accustomed to twilight we naturally thought it would stay light for some time to come, but no sooner had the sun disappeared behind the western horizon than the landscape became pitch black. I was about to comment upon this unusual phenomenon, when Flitternix forestalled my questions, launching into his usual astronomical reflections.

"'My dear Baron,' said he, 'no doubt you are surprised to find there is no twilight on Mars, but the reason, of course, is very simple. The earth, to which you are accustomed, has a very dense atmosphere. After the sun has sunk below the horizon, its rays still strike the atmosphere about you, although you cannot see the sun itself. Naturally, it does not become dark immediately for the reason that the light is diffused in the air above you up to about 30 miles above the astrace of the earth. In other words, the sun on earth acts exactly like a searchlight, which is hidden from your sight while its light shatt piles above your head. You can see the light perfectly overhead, and the sun's rays act in a similar manner on earth.

"'On Mars, however, the atmosphere is very thin and only reaches a comparatively few miles above the surface of the planet. Therefore but little light is diffused in an attenuated atmosphere, as is well known to you; for this reason, no twilight can exist on Mars; this you have just witnessed. As previously experienced during our stay on the Moon, where there is no air of any consequence, everything must be dead black or white; there cannot be any grays in the transition from light to dark. On Mars, of course, such extremes do not exist because there is still some atmosphere to diffuse the light."

"While Flitternix was still talking, we saw the marvelous sight of the city below us being illuminated at the precise moment when the sun had sunk out of sight.

"Nearly every structure and building on Mars is of the same height. On top of their cone-shaped roofs several immense, transparent spheres are spaced 20 to 25 feet apart. These balls are usually arranged in a circle or in an equilateral triangle. No sooner has it become dark on Mars than these transparent balls emit a dazzling rose-white light. This light does not emanate from these globes in form of a shaft, as we are accustomed to see coming from searchlight illumination. Quite the contrary; the light spreads out in all directions for a distance of over 500 feet. The strange fact is that the light is as strong at this distance as it is in the immediate vicinity of the spheres. As a matter of fact, it is strongest about 25 feet from the balls themselves. Inasmuch as every building and every elevated structure gives forth this spreading light, every object within 500 feet of the light balls is illuminated almost as strongly as by sunlight. This creates the curious result that when walking in a Martian street after nightfall, daylight is simulated in a perfect manner and it is hard to realize that it is not, indeed, sunlight that is pouring down upon you. Not only do these transparent light balls give out light rays, but the rays also emanate heat prodigiously. This is quite necessary. I have spoken before of the fact that the Martian atmosphere is very thin and attenuated. Naturally, such a thin blanket of air cannot retain the solar heat

during the night, and for that reason the nights on Mars are extremely cold. This is true of the temperate as well as of the other zones. For this reason the light rays of which I spoke before have been made to produce heat as well, otherwise it would be too cold to walk on the streets after nightfall. As it is, the temperature is but slightly below that which exists at noon time. It will, of course, be plain to you that as soon as the sun rises in the morning the light balls are switched off, for then there is no further need for them.

"You might think that it would be an enormous undertaking to light and heat vast cities by such artificial means, but the cunning Martian, wherever possible, lets Nature do all of his hard work. I have already shown you how the Martians moved the water in their canals and waterways by means of the alldominant sun, and if our luminary can perform useful work during the davtime, why not use it at night? I have mentioned before how the Martians harnessed the sun's energy, storing up enough power to use the surplus after sunset. Thus we find the curious phenomenon on Mars that the intelligent beings inhabiting this planet have harnessed enough energy from the sun during the daytime to furnish them with light and heat during the night. The sun's energy during the daytime is converted into electricity, as I have already shown, and is then stored for further use. Consequently, the night illumination and heat is derived primarily from the sun and costs the Martians nothing. When you consider how crudely you humans use your energy, it must dawn upon you that, you are still very young children. At that the inhabitants of the earth are doing precisely what the Martians are doing, except that they do it in a very had way. You are already deriving 100 per cent of your light, heat and power from the sun indirectly. The coal which you are mining this minute derived its original energy from the sun. Millions of years ago great forests-which were directly a product of the sun-sank into the earth, and the wood carbonized. This wood you are burning as coal today. In other words, you are using sun-power, stored millions of years ago. Even your water-falls from which you derive your power are directly dependent upon the sun. Without the sun to suck up the water from the seas into cloud form, your water-falls would run dry within one week. The Martians, who have long ago exhausted such means of utilizing the sun-power, are now using the sun-power supplied by the sun yesterday. You on earth today are using sun-power stored millions of years ago. After your coal supply gives out and after your water supply is not as abundant as it is at present you will revert to exactly the same means as do the Martians on their dying planet today.

"A Griter dinner the Planet Ruler took us to a vast circular room high up in the mansion, which we presumed to be his study. The thing that struck us most forcibly at once was an enormous glass-like, transparent rod which broke through one of the transparent walls of the room. This rod probably measured two or three feet in diameter, and as far as we could see it was about 15 feet in length. We afterwards found out that it extended 75 feet beyond the building, pointing toward the sky. The thought immediately forced itself upon us that it was a form of telescope, which indeed it was. It was arranged in telescope fashion and by means of machinery located outside of the room, the far end could be made to point to any object in space. As the mansion of the Planet Ruler revolves around its axis, as I have already mentioned to you previously, the telescope may thus be pointed at any star or planet and will follow it with the same apparent speed as that of the planet. In this manner the whole mansion acts exactly like a terrestrial observatory. At the end of the rod we saw a box-shaped form, which, as we were informed later, converted the light rays falling through the transparent rod into electrical impulses, which in turn were magnified enormously and afterwards were reconverted into light once more. A crude analogy would be your ordinary terrestrial selenium cell, which converts light rays into electrical impulses, if required to do so. Of course, the material used by the Martians is not selenium, but is a substance which is not yet known on earth.

"Directly in line with the transparent telescope and several feet away from it, hung a large transparent globe, measuring about five feet in diameter. The Planet Ruler motioned us to be seated in the transparent tos chairs, which we did. Without moving his hand, the Planet Ruler caused the light to vanish from the room. He accomplished this by thought transference, merely concentrating his attention on a thin wire near the ceiling of the room, which, vibrating in unison with his transmitted thought waves, caused the light to be turned off. He now adjusted the tos rod carefully for a few moments till a tiny light ray fell upon the center of the transparent globe, which, as we ascertained, was filled with a fluorescent liquid. Immediately the ray struck the globe, it shone forth in a beautiful pinkish-white light. After adjusting several knobs at the end of the tos rod we suddenly made out the form of the earth floating in space. Clearly the countenance of the earth, with its continents and oceans, stood forth inside of the transparent globe, exactly as if we had been looking at an artificial globe of the earth, such as are used in school rooms. The sight was indeed magnificent and the earth now looked to us exactly as does the moon to an astronomer viewing that body through a powerful telescope. We were still gazing enraptured, when our host turned another knob and the edges of the earth seemed to become blurred until they vanished entirely. In the center of the picture, however, we could make out the North American continent enormously enlarged, exactly as it looks on a map. As this was in the late terrestrial summer, few clouds obstructed the view and we could apparently see the entire section of the United States, only part of Canada being hidden by clouds. Little by little our host manipulated certain knobs and again the view was magnified enormously, while in the center we now saw what we made out to be a bird's-eye view of Long Island. We saw this island as it would probably appear to an aviator from five to eight miles above the earth, with the Atlantic Ocean on the south and east and Long Island Sound on the north. Again the knobs were manipulated and we beheld a most marvelous view of the City of New York, as if viewed by an aviator a few thousand feet above the earth. We were absol. 'thunderstruck at such a marvelous achievement of Marrian ingenuity, but our friend did not stop at this. He kept on increasing his magnifying power till it was possible for us to actually see people walk in the street as a plainly as if they had been seen from the top of a skyscraper! It gave us a very strange, uncanny feeling, to be sitting over 60,000,000 miles away from earth and still to be able to see the people walk around. It proved to us again that there is nothing impossible for science, given intelligence and adequate means.

"After this exhibition, our host showed us all of the planets at a close view, and we were shown that none of the planets except the earth bore life. We saw that the planet Mercury, the nearest planet to the sun, was dried up like a baked clay ball on account of its proximity to the great luminary. It became patent to us that no life could exist on that planet on account of the enormous heat received from the sun, only 35 million miles distant. The planet Venus was not baked dry as badly as Mercury and still abounded in water, but we could not see any trace of vegetation and the air seemed to be filled mostly with dense water vapor, in which organized life probably could exist. Turning to the planets outside Mars' orbit, we next were shown the monster world of Jupiter, which is three times larger than all the other planets combined. This planet is still in a semi-liquid state, and we could see what terrestrial astronomers have long presumed, namely, that Jupiter has no solid crust as yet; it is still a partly liquid ball with dense gases and vapors filling its heavy atmosphere, so that it becomes difficult to view its actual surface.

"The most spectacular view was enormous Saturn with its mysterious rings. We saw that this planet also is in the same state of formation as Jupiter, but it has already cooled down considerably. As is known to terrestrial astronomers, its rings are by no means solid but consist of myriads of little moons and meteoric fragments, some of them not larger than an ordinary house, spinning around its parent body and kept there by gravitation. These little moons, for moons they are, date, to fall upon the parent planet or otherwise coalesce into one or several enormous moons to supplement the existing nine Saturnian moons.

"But, as usual, my time is getting short. I would like to tell you a whole lot more, my dear Alier, but in a few seconds the telegraphone wire will be full to capacity. It is certainly too bad that I did not provide for making the wire twice as long; my daily chas with you could thus be twice as long. However, as I am some 60,000,000 miles away from the radiotomatic plant upon the moon, there is no way to change the matter now. Good-night, my boy, and tomorrow night, at II p, m, to be exact—terrestrial eastern time—I will ask our Planet Ruler to give us a good view of the earth, selecting Yanktown and showing a little house on top of which I hope to see my good friend, I. M. Alier. I know he will be there, so good-night once more \*\*\*\*

The familiar whining sound, a rasp, the usual low click and the ether between the moon and the earth was quiet once more.

(To be continued next month)

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## The GOLDEN GIRL of MUNAN By Harl Vincent



AD you been present in a certain studio apartment in New York City at ten o'clock in the evening of January 16th, in the year 2406, you would have witnessed a surprising series of events. As it happened, Roy

Hamilton was alone in his studio when the thing occurred which altered his entire life and led up to the historic destruction of Munan.

An unusually handsome man in artist's smock, his hair a tousled dark mass, his jaw set, and his black eyes snapping with determination, Roy alternately sat at his writing desk for a few minutes at a time, then paced the floor in impatient annoyance. This procedure was repeated agian and again, his impatience rapidly increasing.

On his desk there reposed an instrument comprising a disc of silvery gray metal, framed in darker gray, and mounted vertically upon a base of similar material. This instrument was Roy's private videophone, and it was the calls from it of a voice repeating, "NY-19-635," that occasioned his numerous returns to it. As he returned and answered his number, a face would appear in the disc and inform him in a monotonous voice that no success could as yet be reported on his call. Each time this was a signal for his renewal of the nervous pacing and muttering, accompanied by further rumpling of his hair.

It was preposterous! Here he had been trying for two hours to get a connection with one of his patrons in Paris. Constant reports there had been that something was wrong with the continental video. Pity that the Terrestrial Videophone Company couldn't keep

their confounded voice and vision ether waves working, he thought angrily. Or whatever kind of waves they were! Roy was no scientist.

His number was repeated again. This time, not in the accustomed voice of the operator; but in a low,

sweet and compelling feminine one. A voice of gold, thought Roy, as he dashed to the instrument. Surprised, he did not view the usual clear-cut image in the disc; but, as through a dense veil, an extremely indistinct vision met his gaze. The features of the girl could not be discerned. Possibly she was beautiful; possibly not. At any rate, the voice, though far away, was clear, and it certainly was beautiful. The most beautiful voice he had ever heard, it seemed.

"Mr. Hamilton, I must speak rapidly. We have

probably upset the entire video system in thus attempting to get you. No doubt the connection will not remain for long," she spoke.

"You know me?" Roy replied, astonished. "I am sure that I have never had the pleasure of hearing your voice before."

"Please, please listen," begged the voice, "There is no time for explanations. What I have to say is of world importance and it may never again be possible to establish this contact."

"All right, lady. Go ahead," said Roy, though he had not the slightest idea as to what was coming.

"Remember from your history, the consolidation of the Powers in 1950?" asked the golden voice. Remember the two thousand undesirables, sent away on the steamship Gigantean? The Gigantean which never returned, and from which no word ever came back to the world?

"The Terrestrial Government and the world at large thought they were well rid of a bad lot. But the Gigantcan was not lost. Neither were the two thousand reactionaries; men and women from all walks of life. The ship eventually reached one of the uncharted islands of the Pacific, where the passengers landed and took up their abodes.

"With materials from the ship, they established their homes. With the machinery from the vessel, one of the scientists of their number did wonderful things. Soon he discovered means of producing a wall of neutralizing vibrations completely surrounding the island. This wall prevented and still prevents the approach of any visitors from the outside world, since under its influence all electrical and mechanical vibra-

toins are entirely stopped. Thus no aeros have ever been able to reach the island, which they called Munan, and the secret has been preserved for four centuries and a half.

"Four hundred and fifty years they have multiplied and now number over a

million persons. Many deadly secrets are in the hands of those, whom I must call my people, much as I hate to do so. The lust for revenge has been handed down from generation to generation and now they are prepared. The date has been set when a hundred thousand men will set forth to devastate and conquer the entire outside world, where peace and happiness have reigned these hundreds of years. With them will be carried the deater t of weapons ever conceived by man, and these are or such nature that it is utterly impos-

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HERE is a rather unusual story which we know you will

science, romance and adventure, and will hold your interest

to the end. Many novel thoughts are brought out in this

story, and you will find it difficult to lay the book down

before you come to the end.

enjoy. The story contains an excellent mixture of



On bis drik repeard Royfs private videophose, and it was the cuils from it that occusioned his serious paring hock and forth. His number was reparted again. This time, on it the accusioned voice of the operator; but it as itow, averet and competing feminine one. . . Surprised, he did not view the sumi clearcut image in he dit; hut, as through a donar wil, an extremely Indistictly vision met his gare. The features of the girl could not he discreted.

sible for your unprepared billions to combat them.

"I cannot dwell now on the miseries of Munan. But a pitifully small group of us, mostly women, are against this move and we must prevent it. We have selected you, partly because of your own vitality and athletic provess, partly because of your close friendship with Professor Nilsson. He, your greatest scientist, we believe will be able to avert this catastrophe, if anyone can.

"But you must both come to Munan. We are sure you will do this, as we have learned of the characters of both through the one spy we have been able to get through to the outside. Think of the utter destruction of probably three-quarters of your inhabitants, which you may be able to prevent.

"We have set the date for your arrival and at the appointed time we will contrive an accident which will temporarily remove the neutralizing wall and permit you to land in Munan. Convince Professor Nilsson of the extreme necessity of this and come in a fast aero. Win, and your reward will be the everlasting gratitude of the world. Fail, and your fate will be no worse than had you refused."

Here followed minute directions as to the exact location of Munan. Busy with pencil and paper, Roy barely had time in which to set down the latitude and longitude; also other necessary information, including the time and date when they would be expected. No sooner had he finished than the dim features and the golden voice faded from his video completely. He was left cold and trembling.

The soft pleading voice lingered in his mind to the exclusion of all else. He tried to picture this girl. Her vision had been terribly blurred, sometimes fading almost entirely from view. The voice, though1 That told him that she must be young, lovely, tender. Ever a sentimentalist, he visioned more his meeting with this girl than he did the seriousness of the mission. Instantly he decided that he would go.

"NV-19-635," spoke the humdrum voice of his videophone operator, "something has been wrong with the video for two hours and a half. The past half-hour it has been absolutely dead all through the terrestrial system; something never before experienced. However, all is well now and you may have your Paris connection."

"Oh, hang the Paris connection !" was Roy's reply. "Give me NY-20-325 right away."

"Hello, Roy," almost instantly responded the deep masculine voice of his friend, as the face of Professor Nilsson appeared in the disc, "what in the world are you calling about at this hour, and what are you so pale and mussed up over? Have you seen a ghost?"

"Maybe I have, Prof; but if I did, it was a ghost with a wonderful voice and such a story to tell as has never been heard before. This is serious. Can you come right over?"

"Well, seeing that it is you, my boy, and seeing that you look so ill, I will do it. But you know that I can not remain for long."

"You may stay longer than you think, when you hear what I have to tell you."

"Maybe so; maybe not. At any rate, expect me in ten minutes. I am worried about you."

The voice and face of his dearest friend and adviser vanished, and Roy proceeded to remove his paintbedaubed smock and brush his hair, so as to present a somewhat better appearance when the professor arrived. Observing his reflection in the glass over his dresser, he saw that he did indeed look shaky.

### II.

BY the time the professor arrived, Roy was in a much calmer mood, and was seriously going triend rushed in, and when he looked at Roy he laughed aloud in relief.

"Well, you certainly look better. What happened to you, anyway?" was his greeting.

"Prof, when I tell you this story, you are going to be as hard hit as I was. Here; what do you make of this?" he said, handing over the paper on which his notations had been made.

"Why, Roy, this is the definite location of some place or other in terms of latitude and longitude. Also, I see the date February first, and the notation 'two A. M. Washington time." Something about green beacons, too. Where did you get this and what does it mean?"

"That's my own handwriting, and I'll tell you in a minute how I came to write it. In the meantime, sit down and make yourself comfortable for a long talk."

"Roy, have you an atlas around this old workshop of yours?" asked the professor. He seemed suddenly to take more interest in the paper. "I believe this location is out in the uncharted wastes of the ocean somewhere."

"If it is, it will be pretty good proof of what I have to tell you," was the retort.

Roy produced the atlas and the professor at once turned to a double-page map of the western hemisphere.

"Just as I thought," he muttered. "Look here, Roy, are you spoofing me or what? There is not even an island within a thousand miles of this spot, and it is at least that far off any of the transoceanic aero lanes."

"Then it shows that I wasn't dreaming. Sit tight and listen to this yarn," said Roy, as they pulled their chairs close to the table.

With the golden voice softly whispering in his consciousness, Roy told his story. The professor listened intently; never interrupting, but occasionally starting in surprise, occasionally nodding as if in confirmation. Almost word for word, Roy repeated the plea of the girl as it had come to him, and when he had finished, the professor sat silent for several minutes, evidently deep in thought.

"Funny," he finally said, "I have always thought there was something mysterious about the disappearance of the Gigantean. You know she was the last one of the old floating ocean liners. When the Powers got together away back there in the middle of the twentieth century, and formed the Terrestrial Government, with headquarters in Washington, there still remained a group of widely scattered radicals, who were against the consolidation. They did not believe that war was actually made forever impossible by the many irresistible weapons which science had developed. They fought disarmament and the consolidation bitterly, and stirred up much discord. Finally, in desperation, the Terrestrial Government rounded up the ring-leaders in various parts of the world, put them on the *Gigantean* and told them to go wherever they pleased, but to never appear near any inhabited coast on pain of destruction, by means of beam energy, of the ship and themselves. With the abolishment of all surface travel on land and sea, and the establishment of the beam lanes uniting all countries with innumerable aero connections, this seemed easy. The only logical course for the exiles was exactly that which was explained by your mysterious voice. I am inclined to believe the whole story,"

"I am, too," said Roy, "and I also think that we ought to see this thing through."

"Good for you, my boy. And I am with you to the end." They gripped hands.

Reaching for the paper on which Roy had scribbled the instructions, the professor again scanned it closely. "What is this about two green beacons?" he asked.

"The voice said that we were to land between two such lights when we reach Munan," answered Roy, "and that we could not possibly make a mistake about it, since all of the regular landing stages in Munan are lighted by white beacons at night. She said that they would have the green ones especially prepared for our arrival, and in a safe place."

"Strange that no one has discovered this hiding place place in these hundreds of years," mused the professor. "But I suppose the fact that it is so far off the regular lanes of aero travel explains it. That, together with the fact that anyone who might by accident have reached it, never could have returned to tell the tale. Think, though, of how much spying on us they have been able to accomplish in all those ages. Quite naturally their civilizatien will be as far advanced as our own. They may have made even greater scientific advance than we, if that island has good natural resources. According to history, a number of eminent scientists were originally among them and the descendants of these would undoubtedly have obtained still further knowledge."

"Well, how about getting some sleep?" said Roy, with a yawn, "I am all worn out and tomorrow is another day. Shall we start making our preparations at once?"

"We certainly shall, as we have only a little over two weeks in which to get ready. Your suggestion about the sleep is a good one though, and I am going home. Good thing we are both bachelors and able to decide for ourselves. Well, good night, my boy. See you in the morning."

The professor was gone and Roy betook himself to bed.

### III.

URING the succeeding two weeks Roy and the professor were very busy indeed. Many things there were to be accomplished, and they dared take no one into their confidence. One of the most important items was to provide for some means of warning the world in case their mission should be unsuccessiul. This was done by writing a complete record of the affair and the part they intended to take in it, sealing the records and depositing them with a bank president who was intimately known to the professor. They left instructions that the packet was to be opened only in case it was not called for in person on the fifteenth day of February at noon. They had two weeks from the time of their start in which to save mankind! And mankind had only five days from that period in which to save itself, if they failed! The date set by the Munances was the twentieth.

This detail satisfactorily arranged, they applied themselves to the task of making ready for the journey to Munan. On the third day after the mysterious disarrangement of the terrestrial videophone system, which was still the main topic of conversation and conjecture by the experts, the professor took Roy with him to his laboratory.

"Roy," he said, "I have a big surprise for you. One that I did not intend to make public at once. Possibly I shall never be able to publish it now. But it is going to serve us admirably in our present dilemma."

"We sure do need any help that can be obtained from your discoveries. I hope that you have something that will save the day," Roy said, as they entered the laboratory building.

"At least," said the professor, "we have here the vehicle which is going to carry us to Munan swiftly and safely. Whether it will bring us back, remains to be seen."

Leading the way to a large room on the second floor, he commenced removing the canvas cover from what resembled the hull of a small submarine boat of the early twentieth century. As the cover was completely withdrawn, there was revealed a cigar-shaped metal body about sixty feet long and fifteen feet in its largest diameter. This did in some way resemble the archaic under-water traft.

"This is the big surprise, my boy," the professor stated, "and we are going to have time to test it thoroughly before starting on the big adventure. This is an aero, the like of which has never before been constructed.

"Unlike the standard aeros mine does not depend upon beam energy for its motive power. Had we to rely upon the regular thing, we should be in a bad way for the job at hand. No existing beam could be used, since none are set for the proper direction. Thus we should have been compelled either to construct our own beam transmitter, for which there would not be time, or to take the Thomas Energy Company into our confidence and arrange for them to provide our power.

"My aero utilizes stray electronic energy as the old time sailing vessels used the winds of the ocean. But here we obtain both lifting force and propelling power from the losses of the regular energy beams. Of course you know that there are some losses in our standard beam transmission systems. These are very slight, but are constantly building up a supply of stray impulses, completely filling the earth's atmospheric envelope and extending far out into space. This storage of energy will continue as long as ir remains unused. and until my discovery there was no means of tapping this huge reservoir. In the meanwhile all space is gradually filling up with these stray electrons, which are merely chasing each other about at terrific speed but producing no useful energy.

"The most important part of my discovery is a peculiar metal alloy which has the property of absorbing this potential energy and converting it into useful forms. If the use of this form of energy ever becomes universal, the present stored supply will eventually become exhausted. When this occurs, the use of the stray impulses will have to be reduced to a total amount not exceeding the usable losses of the regular energy systems. We have no free energy here and never will have. We are merely increasing the efficiency of the present energy systems."

They entered the aero, which was provided with a tiny galley, a small but perfectly equipped dining salon, a cabin having sleeping accommodations for twelve persons, and the control room which also contained the propelling machinery. Storage compartments, refrigerating and heating equipment and ballast filled the spaces between the rectilinear walls and floors and the curvilinear outer shell. Roy exclaimed at the luxury of the cabin and into the control room.

All of the propulsion machinery and the controls were housed in a cubicle in the bow which was not over twelve feet square. In the center of this, mounted on a heavy pedestal, was a sphere about two feet in diameter. For all the world this reminded Roy of one of the globes used during his school days in the study of the geography of the earth and other planets. The sphere was constructed of metal having a purplish tinge and its surface was covered with fine corrugations. Two small driving motors were in evidence, and the sphere was so mounted as to permit its axis to be swung into any angle with relation to the longitudinal axis of the cigar-shaped vessel. Mounted upon a pair of encircling rings and so arranged that its position with relation to the sphere could be varied at will, was a truncated cone about a foot long and six inches in diameter at the large end. This object was constructed of the same purplish metal and its axis was directed towards the contour of the sphere tangentially.

In the front of the room was the control platform. Two or three control levers, a periscope arrangement for obtaining unobstructed vision in all directions, and a glass case containing the navigating instruments comoleted the eulument of this pilot house.

"Is this all there is to it, Prof?" asked Roy.

"Absolutely all," replied the professor. "Simple, is it not? Let me explain it to you briefly so that you will understand something of the operation of the aero which is to carry us on our mission.

"You have observed the sphere and the conical object trained upon it. Both are of adamite, the alloy which I mentioned. When in operation, the sphere is protonically charged, and the truncated cone of adamite collects the electrons, taking them from their regular orbits and redirecting them in a continuous stream against whichever portion of the sphere it is pointed at. If you remember your ancient history, you will recall that in the early twentieth century a vessel for travel on the ocean surface was invented by one Flettner. This vessel obtained its driving force from the winds by means of two large vertical rotors on the deck. In much the same way as these forces were transmitted to the hull of Flettner's vessel, we utilize the stray electronic energy to drive our aero.

"Our sphere may be rotated on its axis in any plane. The electron collector may be directed upon its surface at any angle. By proper adjustments of the angles and the speed of rotation of the sphere, we obtain both lifting power and propulsive force. The direction and speed of our vessel is determined by the force transmitted to its hull through the pedestal. This force is the resultant of the angles and velocities, and its direction and magnitude may be varied at will. We are not limited in this resultant force as was Flettner. He was dealing with winds of low velocity, whereas we are utilizing an electron stream with a velocity of 186,000 miles a second.

"The speed attainable by our aero is limited only by the density of the atmosphere and the temperature we can bear in our cabins. I have found that about six hundred miles per hour is as fast as I want to travel at ordinary altitudes, since at much greater speed the room temperature becomes somewhat uncomfortable, even with the refrigeration system in operation. This is due to the friction of the atmosphere on the hull. Of course at greater altitudes, the air density decreases and the speed may be proportionally increased. Were we to proceed outside the atmosphere, we should be able to approach the velocity of light, if we so desired."

This partial, but lucid, description wes fairly well understood by Roy, and he was utterly astounded by what he had seen and heard. It seemed so absurdly simple that he wondered why it had not been thought of centuries ago. And what a storehouse of this energy must now be in reserve, he thought, after the centuries during which these stray impulses had been accumulating.

With the inspection of the *Pionecr*, as the professor had named his machine, completed, they went ahead with plans for the trip. It was agreed that Roy should gather and store in the *Pionecr*, all clothing, foodstuffs and the like which would be required, while the professor was to spend his time in stocking the aero with the scientific needs of the expedition.

The succeeding unite days were spent in making these preparations and in making two trial trips in the *Pioneer*, the aero performing beautifully on both occasions. An important feature of the trial trips was Roy's instruction in the operation of the aero. He learned easily, and was pronounced a finished pilot at the end of the second iourney.

All was in readiness on the twenty-eighth of January and the two men contemplated the results of their labor with satisfaction. Roy had provided several changes of raiment for both; tropical and arctic regalia being included, in case of their being taken far from their course and making a forced landing in some rigorous climate. Condensed, but appetizing food and drink had been provided in sufficient quantity for a two months trip in case so long a time was found necessary for some unforeseen reason. All such supplies had been carefully stowed away in the rear compartments of the *Pioneer*.

The professor had installed oxygen apparatus on board the *Pioner* in case of the necessity of entering high altitudes. He had packed away, in various compartments, numbers of scientific instruments. The purposes of these were unknown to Roy, but the professor assured him that many might be found necessary. Stores of chemicals and of laboratory equipment for chemical experiments were included. The professor also had taken a number of odd weapons from his extensive collection. Some of these he said were very effective, regardless of their ancient source. In addition to these, he told Roy, there were weapons of his own devising, which might prove a great surprise to the Munances, should it become necessary to use them.

With this work completed, the professor set about plotting their course. He proved to be no mean navigator. To be on the safe side, he figured on an average speed of four hundred miles an hour. Their course as laid out, passed directly over New Orleans and measured almost exactly seven thousand miles from New York. It therefore behowed them to leave seven teen and a half hours in advance of the time set by the girl for their arrival. This meant that the start would be made at eight thirty in the morning of January thirty-first, and arrangements were made accordingly.

In the short time intervening, the two were occupied in straightening out their personal affairs so that all would be in order in case of their failure to return. This was a comparatively simple matter for each, since neither had any immediate relatives to be concerned over.

Finally the morning of the fateful day arrived, bright and clear but very cold. At a half hour before the appointed time, both men were at the laboratory.

The sliding roof had been opened over the *Pioneer* and all was in readiness. With the interior of the aero comfortably heated, both men sat in the control room watching the minute hand of the chronometer as it approached the time of eight thirty. Minutes seemed hours, and neither spoke.

At last the time was at hand, and the professor was at the controls. Precisely on the minute, he turned the switch which started the sphere revolving, and adjusted its angle with reference to the cone, which was pointed directly upward beneath the sphere. Without a sound, the *Pioneer* arose vertically, gathering speed as the revolutions of the sphere became faster and faster. They were off!

### IV.

HEN the needle of the altimeter registered four thousand feet, the professor charged the southwesterly direction, and settled down to a steady speed of four hundred miles an hour.

At eleven eighteen by the chronometer they passed over New Orleans, and by eleven forty were headed out across the Gulf of Mexico. At one thirty in the afternoon they were leaving the southwest coast of Mexico and passing over the broad expanse of the Pacific. The professor now turned the controls over to Roy, instructing him to keep the helm so adjusted that the needle of the inductor compass continued to point to the vertical mark. The altimeter was to be kept at four thousand feet while the professor went astern for his lunch.

Roy took the controls with enthusiasm. He could not understand the professor's matter-of-factness. though he could understand his hunger, as neither had stopped for breakfast. Roy was beginning to feel the pangs of hunger himself. They were more than five hours out now : practically a third of their journey had heen completed. As time passed, the impression left in Roy's mind by the golden voice which had brought about this trip, became stronger and stronger. The rich, mellow tones of this voice seemed to ring in his ears, drawing him on. Something within his consciousness told him that he was going to his destiny. Reckless of the future, this thought grew on him until he began planning all sorts of things. But these were happy thoughts; somehow he had no thought of the dangers to be encountered, nor of the fact that his own life and those of countless billions of his fellow-men depended on the success of this expedition.

His meditations were cut short by the return of his friend, who announced that he was feeling much better after a hearty lunch. Relinquishing the controls, Roy suddenly realized that he was even hungrier than he had thought, and betook himself to the miniature saloon for his own lunch. He found that the professor had kindly prepared an appetizing meal for him. An atomic percolator on the table was busily preparing steaming hot coffee for him, and he shouted his thanks through to the professor before he sat down to eat. The meal was piping hot and delicious. He returned to the controls much refreshed.

By now it was four p. m. by the chronometer; their journey was nearly half over. As Roy peered at the periscope reflector, noting that nothing but the tumbling surface of the Pacific was visible in all directions far below them, the professor startled him with a remark:

"Well, we will not be running into darkness for hours yet, but if my weather sense is correct, we are going to encounter a storm very soon."

"What," exclaimed Roy, "no darkness for hours? Why, it is after four o'clock now, and these are the shortest days of the year."

"Yes. Four o'clock, Washington time," said the professor, dryly, "but you must remember that we have been traveling away from the sunset hour. We shall not see mightfall for four hours or more, if my dead reckoming is correct. At two a.m. tomorrow by our time, we shall be in Munan. There it will be only ten p. m. of today's date."

"Right. I never thought of the difference in time, Prof," was Roy's rseponse, "but look at the periscope. Isn't that a storm coming up, way ahead of us?"

"Yes, that must be the one I smelled," the professor responded, "but the *Pioneer* has nothing to fear. We shall simply go up over it, and I hope that by the time we reach Munan, the storm will have passed. In fact, I know it will, because such storms usually cover a comparatively small area. althemeth they travel rapidly. However, their speed is as nothing compared with ours, and even if it is traveling in the direction of Munan, we shall far outdistance it."

With that the professor manipulated the controls, and the altimeter at once showed the increase in altitude. Six thousand, eight, ten, twelve thousand feet and there it stopped.

"There is no real need of rising further, as we shall be well above the storm now," said the professor. "But I would like to test out the oxygen apparatus, so we are going up further. I shall be compelled to correct my reckoning on this account, but that will not be difficult, and if we lose any time, it can be quickly made up by increased speed."

Closing one valve and opening another, the professor pulled back the altitude control; the cone swung way around to a new position, and the *Pioncer* shot skyward at an angle of about forty-five degrees.

"That is what those railings around the operating platform are there for," laughed the professor, as Roy swung about and wildly grabbed for one to keep his balance. "Better strap yourself into the seat beside mine here, as we may do a little more of this sort of thing before we return to a lower level."

Roy complied, as the professor adjusted his own strap. A slight hiss told of the functioning of the oxygen apparatus, and Roy glanced at the altimeter. Already it showed forty thousand feet, and was mounting rapidly. Their speed was tremendous; fifty thousand feet a minute now by the 'rate of rise' indicator. At their angle, this meant over eleven hundred miles an hour, air speed. Fifty, seventy, one hundred, two, three, four hundred thousand feet read the altimeter and there was the *Pioneer* restored to an even keel. Roy took a deep breath. It was becoming very cold, but the professor had already turned on the atomic heat and soon the control room returned to normal temperature.

"I must provide for thermostatic control of the room temperature, when I get the time;" spoke the professor, more to himself than to Roy. "but our oxygen supply seems to function perfectly anyhow. We are far outside the upper limits of the atmosphere now, and we have been for several minutes."

"Everything seems to work to perfection," was Roy's only reply, as the descent started at a reduced speed.

When they had finally returned to their altitude of four thousand feet, the storm was far astern, but they could see from the turbulent surface of the ocean that it had been a serious squall. The professor again gave over the controls to Roy and disappeared astern. He returned soon and announced that he had checked his reckonings and that they were but slightly off their course and somewhat ahead of their time schedule, rather than behind. Making a minor correction in the setting of the compass, he told Roy that he wanted to lie down for a short while to get a little rest, and returned to the cabin.

Roy had plenty of time in which to think while the professor rested, and as the distance to Munan became rapidly less, he thought more and more on the seriousness of their mission. Still the voice which had brought them kept intruding on his consciousness. He began to believe that there was some thought transterence connected with this, for he simply could not shake off the impression of the voice. It was now somewhat different than when he had heard it over the video, then it had been sad and pleading; now it was confident, cheering. But it retained the charm, the golden quality which had first interested and captivated bin.

When the professor returned, night had long since fallen and only a few hours of the trip remained. Ife advised Roy to get some sleep himself, saying that he would remain at the controls anyway until they landed. Roy was too excited, however, and occupied the seat at the professor's side for the rest of the journey.

At last only a half hour remained and soon, directly ahead, they made out a faint speck of light which grew rapidly in size until it was finally discerned as the lights of a city in the distance. Again the *Pionecr* arose until an altitude of about fifteen thousand feet was attained. All lights were exinguished, with the exception of the small ones in the instrument case, and soon they were directly over Munan. The time was exactly two by their chronometer as the vertical descent commenced, and in a few seconds they made out the outlines of the island.

The city itself occupied only a small portion of the island's surface. The remainder of its area was in darkness, with the exception of scattered groups of lights which probably marked the locations of farms and mines. Shortly, they located two tiny spots of green light in one of the darkest spots on the island.

"Your friend certainly kept her word," said the professor, as he maneuvered the *Pioncer* to a position directly over the two green beacons, which appeared to be about three hundred feet apart. "The neutralizing wall must have been out of service all right, and there are the green beacons as big as life."

Swiftly, but without a shock at landing, the *Pioneer* dropped between the two guiding lights and came to rest as the professor opened the switch.

### v.

W 1TH his pulses beating madly, Roy rushed to the manhole, which was the only exit, as well as entrance to the *Foineer*. He desired to be the first to set foot on the soil of Munan, but the professor stopped him as he began to unfasten the clamping bolts.

"Not so fast," warned the professor. "We are not sure whether we will be met by friend or foe. Posssibly the enemy has learned of your friend's plans and has only allowed us to land so as to make away with us before our world can be warned again. We had better go out armed. Better to die fighting, if we have to die. And if we are met by friends, it will do no harm."

"Professor, you are always right," admitted Roy, as the professor went to the locker where he had stored his weapons.

He returned at once with two small, pistol-like contrivances, one of which he thrust into Roy's hand,

"This," he said, "is a very ancient weapon. In fact, this device is one of those which contributed in bringing about the conference of the Powers in 1950, resulting in the disarmament and consolidation of the various peoples of our world. This device projects the disintegration ray which immediately destroys entirely any animate object at which it is directed. Just press this little button and the ray shoots forth, but be sure you have it pointed in the right direction. I am sure that this is just as effective now as it ever was, but we do not know what sort of weapons we may have to combat here. But I suppose we are as well prepared as we can be, under the circumstances."

The arm was examined curiously by Roy, who had never seen one before, except in the museum.

Unbolting the manhole cover and swinging it open, the professor courteously allowed Roy to leave first, knowing that he was extremely anxious for this honor. They stepped forth into the darkness—even the green lights were now extinguished. Cautiously they left the *Pioncer* and advanced into a clearing which was dimly visible by the faint light from what few stars were out. Weapons in hand, they waited breathlessly.

Suddenly a voice spoke, clear, sweet, compelling. Roy's heart seemed to leap and turn over in his body. It was the golden voice of his dreams, and very softly it spoke the words of welcome which he would never forget.

"Dear, brave strangers from The Outside. I was sure you would come. Roy, I have been sending my thoughts out to you for the better part of twelve hours. Several times we were almost *en rapport*; never quite. Professor, I know you will not fail in this great undertaking. I thank both of you with the deepest gratitude. Follow me to our hiding place, where we shall meet the rest of ny group and find a haven for your aero, and rest for yourselves."

While speaking, the girl of the golden voice approached the two until finally she stood beside them. By this time their eyes had become more accustomed to the darkness, and they made out the dim outlines of a small figure, evidently cloaked in some dark material. The features could not be discerned even when she stood directly before them, but the voice of their welcomer thrilled them both.

She grasped Roy's hand, and at its touch his body tingled from head to foot as from an electric shock. Surely the possessor of this tiny and delicate, although firm, hand needed assistance and protection, he thought as they were led in silence towards the edge of the clearing, where the tree-tops were faintly visible against the almost black sky. As they neared these trees there was a slight rustle ahead of them, and a masculine voice spoke out in a very low tone:

"Is all well, Thelda?"

"All is well, Ramon. You may light your torch," she replied, and with that there was a click and the beams of a hand light revealed the way ahead through the forest.

For a short way they traversed a heavily wooded space and soon, after emerging from the woods and climbing a slight grade in the open, approached the base of a sheer vertical cliff of stratified rock. Feeling along an entirely smooth and unmarked section of this wall, Ramon, their guide, soon found the depression for which he was searching. At his touch, a section of the solid stone swung back, revealing the entrance to a long, unlighted passage. They entered and silently the stone door swung to behind them. With the way lighted only by the beams from Ramon's torch, they followed a winding passage for a considerable distance and finally reached a large circular cavern, which was so brilliantly lighted as to dazzle them temporarily.

Their guide led them directly to a large council table, around which were seated some thirty people, only about six of whom were men. As they reached the group, all eyes were focussed on the strangers, but Roy's eyes were only for the girl at his side. She threw off her cloak as she turned to the council table, and there stood revealed in her transcendent beauty. Even the professor gasped: Roy stood spellbound.

Although small in stature, her silimness and the erectness of her carriage gave her the appearance of greater height. Vibrant with life, her face was turned partly towards Roy, so that he was enabled to study the perfect profile intently. Fluffy red-gold hair seemed a fitting halo for the piquant oval of ivory creaminess which was her face. Large, golden brown eyes, wide set beneath perfectly arched brows, with their expression of sadness and innocent appeal, belied the firmness of the small chin, the sauciness of the very slightly upturned little nose, and the sweet promise of the rosy lips, now barely parted in excitement.

The words of her presentation of them to the assembly were unimportant to Roy's cars; the voice and the girl herself held him in a trance. To him she became the "Golden Girl" at once. Her mellow voice; her golden coloring; the beautiful spirit revealed by her spoken thoughts; all contributed to this impression. Thelda, her name might be; but in Roy's innermost thoughts she would always remain the "Golden Girl." Then and there he resolved that, whatever the cost, he was going to win this girl for his wife and take her from this terrible island to his own home.

"People," she spoke to the assembled listeners, "these are the two of whom we learned so much through the visit of Thandar to "The Outside.' This man," turning to Roy, "is Roy Hamilton, to whom I made my plea on the night when we disrupted the videophone system of The Outside. This man," nodding in the professor's direction, "is Professor Nilsson, the famous scientist of The Outside, in whom we have placed our hopes. Both, as we all know, are brave, courageous men, and I am sure that our confidence has not been misplaced. May the Supreme Power, in which we few of all Munanese believe and trust, be their guide and protector."

Thelda then sat at the head of the council table, and her glance met Roy's. A slow flush enheightened her beauty and told Roy that his feelings were at least partly returned. Frankly the eyes of each appraised the other.

A handsome and imposing man, who sat at Thelda's right, arose and addressed the strangers:

"Gentlemen, I an Landon, Thelda's chief adviser," he spoke. "Our dear leader has brought about your coming to us. Like her, we can not convey to you adequately our gratitude for your noble response to our appeal. We thank you in the name of mankind, which is ignorant of the fate with which it is threatened. For ourselves we care not. Many of those here may lose their lives in this undertaking. One lost his life tonight in contriving the power house accident which closed off the neutralizing wall for a half hour to permit your entrance. We have terrible powers to combat; but we feel sure that, with the help of you two, we shall succeed. After you have obtained the rest which you so badly require after your ardrous journey, I shall again call the council together and our entire problem will be placed before you. Our workmen have, by this time, transported your aero to an adjoining cavern, and we believe that you will find yourselves more at home in your own quarters than in any we could provide. We shall now disband until tomorrow and allow you to return to your aero."

With Landon's conclusion, all members arose from the council table and crowded around the two strangers, introducing themselves, and overwhelming Roy and the professor with thanks and with wishes for a good night's rest. These people were a remarkably striking looking lot; the mew were physically very powerful and of classic and dignified features; the women, though slightly smaller in stature than those of the outside world, were far more beautiful, with a loveliness that was almost ethereal in character. None could compare with Thelda though; and, as he and the professor were led to another passage by Ramon, Roy kept his eyes on her until she was lost to his view.

They found the *Pioneer* reposing on the floor of another huge cavern similar to the first. Ramon explained that an opening to the outer atmosphere had been provided at the top of this cavern and that this was of sufficient size, though hidden by underbrush which grew at the top of the cliff, to permit of easy entrance and exit for their aero. How the *Pioneer* had been transported to the spot, he did not explain. This cavern was unlighted, and they were left at the manhole of the aero in darkness as Ramon departed with his torch.

Entering and flooding the *Pioneer* with its own light, they soon disrobed and, without further discussion, sank into the deep sleep of utter exhaustion.

## VI.

OY awoke at one, by his watch; nine o'clock in the morning by Munan time, he remembered, and set his timepiece back accordingly. Finding the professor still asleep, he dressed quietly so as not to disturb him and set forth to investigate his new surroundings. He stepped out from the Pioncer and found the cavern in which she reposed dimly alight from a circular opening high overhead, through which the light of day was admitted, and through which it would be necessary to guide the aero when they left. He returned for a pocket torch, and started down the passage through which they had entered this cavern. When he reached the large council chamber, he found it as brightly lighted as previously. On the far side of the cavern he observed a sort of raised dais on which there was a smaller table than that about which the company had assembled the previous night; also several easy chairs, one of which was occupied by none other than the Golden Girl, who was busily engaged with several books and a large map. At sight of her beautiful head bent over her work, his heart again behaved unaccountably, and he approached silently, almost reverently.

When within a few feet of the dais, he spoke. "Good afternoon, fair lady. Or rather I should say, 'good morning.'"

Somewhat startled, for she had been so absorbed in her work, that she did not notice his approach, she raised her head. When she saw who it was, she smiled and replied, "Good morning, Roy. I hope that you are now refreshed after a good sleep. And you must not mind my use of your given name. That is our custom. You are to call me Thelda, too."

Again, when their glances met, there was that indefinable something which passed between their minds and told both that a close bond existed. Each was momentarily confused, but Roy seated himself, as Thelda motioned him to a chair beside her own, and soon the embarrassed feeling passed. They found themselves at once discussing seriously the object of the trip from The Outside, as the outer world was spoken of in Munan. Roy was full of eager questions concerning Munan tiself, and Thelda launched forth into a discussion of the subject nearest and dearest to her heart.

It seemed that Thelda had been the only daughter of one Paul Serano, who had been the leader of the small group of thinkers who were opposed to the designs of the Munanese against The Outside. He had been working on plans for frustrating these designs for ten years. Thelda's mother had died at the time he first conceived these plans, and Thelda herself had been but ten years of age when this occurred. A few months before the call to Roy and the professor, Serano had been apprehended by the Zar in an attempt to obtain certain information regarding the exact nature of the plans for the conquest of The Outside, and had been summarily executed. This left Thelda an orphan, hunted by the Zar; and the group of faithful adherents to her father's beliefs had made her their leader in his stead. Despite the fact that she was only twenty, she was well qualified to lead them, because she was not only greatly loved by the group, but she had worked with her father constantly since the conception of his idea and was more familiar than any of the others with that which had been accomplished. She was compelled to live in apartments connected with this underground refuge, as were several others of the group, to escape the hand of the all-powerful Zar. Luckily, however, most of the group were not known by the agents of the Zar as being non-adherents. These were enabled thus to live normal lives in the city, and ten or twelve of them were in the employ of the Zarists, endeavoring to get all information possible. Thelda's father had been a scientist of repute in Munan; the only scientist in the group; and with his demise the group had become desperate, for it was necessary to combat the designs of the Munanese by means of Science. This had necessitated the sending of an emissary to The Outside, which was accomplished with considerable difficulty. The emissary had returned with knowledge of the professor and of his friend, Roy. The call to New York had followed.

By the time Thelda had reached this point in her

narrative, the two were joined by the professor. Soon the party was augmented by the arrival of Landon and two of the women members of the group, who were known as Zora and Merna. Zora-was a very beautiful woman of possibly forty years of age; nearly that of the professor, thought Roy, as he noted from the corner of his eye that she and the professor had enagged in earnest conversation.

Thelda and Landon decided that it was not necessary to call a meeting of the council, but that the entire situation could be discussed immediately among themselves. Landon was requested to give to the two strangers the entire story in as few words as possible. This being agreeable to all present, the six proceeded to the council table, where a map of the island and city of Munan had been laid out.

Roy and the professor examined this map closely, noting that the island was roughly elliptical in shape, about seventy miles in length and about thirty miles across at the widest point. On the map, surrounding the island at a distance of some five miles from the coast, was a broad red line which Landon explained represented the neutralizing wall. The city itself occupied only one end. The rest of the island, which was of volcanic origin, consisted of part mountain and part level land, a small portion of which was covered by forest. The caverns were located almost exactly in the center, and were under the surface of a mesa-like **projection** of the largest mountain, which was known as Leyris.

"Friends from The Outside," commenced Landon, "there is much to be done within the next twenty days, if the designs of our accursed people are to be circumvented. For this reason I am going to make my story as short as possible.

"Beginning with the founding of Munan and leading up to the present time. I need not tell you much more than Thelda reported over your videophone system. That conversation was very difficult of attainment, for none of us fully understood the operation of the apparatus which Paul had perfected for this very purpose before his death. However, we did paralyze the terrestrial video system as you know, and Thelda did get her message through.

"Munan was conceived in hatred, and the descendants of those original two thousand have handed down that hatred of The Outside, which gradually intensified through the ages. In each generation there would be a few who, like ourselves, were born with the love of mankind in their hearts, but as quickly as these were discovered by the Zar they were killed off in cold blood. Thus, by a process of enforced evolution, there was developed a race of cold-blooded creatures who call themselves men and women, but who are in actuality, fiends incarnate. There has been practically no internal strife, because the Munanese has a single-track mind. His venom is all directed against The Outside. Such is the power of evolution. Our group is entirely different. In all evolution there are reversions to types, which types may have been remotely located in the roots of the family tree. We are those reversions; thank the Supreme Being. We were born with love in our makeup instead of hate, and none of the early training could remove this love.

"Zar Taled the fourth, our present despotic ruler, decided about fifteen years ago that the time for the conquest of The Outside was nearing: He set the date for February twentieth, 2406. Meanwhile all efforts of the inhabitants, excepting those in pursuits necessary for the business of living, such as food production and the like, have been expended in preparation for the great event.

"The time is approaching rapidly and all is in readiness. Ten thousand aeros have been constructed; each is capable of carrying ten men and a cargo of ten tons. These are stored under heavy guard in the Zar's arsenal directly on the other side of Leyris. They are the product of the not-to-be-despised scientists of Munan, and are very speedy and powerful. The secret of their motive power is known only to a trusted few; but we do know that it is from an inexhaustible source. These aeros, like your own, have no external wings or propelling mechanism. Unlike the Pioneer, though, they are provided with an impregnable means of defense. and a horrible and inescapable offensive weapon. They can be made invisible! The mines of Munan have vielded metals and chemical elements unknown to The Outside, and from these our chemists have compounded a substance similar in consistency to the house paint of ancient days. This substance, when applied to its surface, renders the metal munium invisible. The Zar's aeros are constructed of munium and will be painted with this compound. Thus the aeros and all they contain will be absolutely non-existent as far as human vision is concerned. What avail would any of the energy beams of The Outside be against an attacker who could not be seen?

"The offensive weapon is also a product of our chemists. It is a highly concentrated liquid which has the property of completely disintegrating any object with which it may come in contact, excepting only the metal crysinum. The ingredients of this liquid are found only in Munan and are extremely rare, even here. Two hundred years have been spent in accumulating a sufficient supply and storing it away in crysinum containers. One drop of this liquid on the *Pioneer* would utterfy destroy it and all within it. A crysinum bomb weighing less than one hundred pounds, dropped from the sky on your city of New York, would entirely destroy it with all of its inhabitants, and all within a radius of thirty miles besides. Do you see why we warned you and sent for you?

"The centuries old plan of the Munances is this: On the day appointed, ten thousand aeros, rendered invisible, are to set forth. Each aero will carry a crew of ten men and a cargo of two hundred of the crysinum bombs. Two thousand of the aeros are to head for the North American division, two thousand to the African division, two thousand to the European division, and so forth. Each fleet is to spread out over its particular area, destroying the principal cities and industrial centers. No quarter is to be given; in fact none could be asked, since the inhabitants would not have the slightest idea of the cause of the destruction, nor where to sue for quarter. After the wanton destruction all of the great cities and probably eighty per cent of the population of the globe, the Munanese intend to take possession and start the foundations of a new civilization in accordance with their own ideas.

"The small group you saw in this chamber when you arrived, with a few workmen who were taking care of your aero, and your two selves, are all that stand between The Outside and this dreadful catastrophe. Possibly we shall fail; but we have every confidence in you, Professor, as the only man who can avert the holocaust; and in you, Roy, as a valiant supporter of our cause and of the professor in his part of the work. That is all."

#### VII.

A The finish of Landon's taik, Thelda had bowed her head into her arms, which had been folded before her on the table. Roy sat in stunned silence, while the professor drummed nervously on the table top with his fingers, staring at Landon the while. Finally the professor started shooting rapid-fire questions at Landon, and Thelda straightened up with interest, though her eyes were brimming with tears. Roy wanted then, more than anything in the world, to take her in his arms; to comfort her and cheer her. He had the utmost comfdence in the professor's wizardry.

"Landon," asked the professor. "you say these invisible aeros are stored in an arsenal directly across and on the other side of this mountain?"

"Yes, that is correct, Professor, but this arsenal is under heavy guard, you must remember," replied Landon.

"Have you any samples of the metal crysinum and of the deadly liquid with which the bombs are filled?"

"We have several articles constructed of crysinum but the liquid has never been seen by any of us. In fact, so great is the secrecy surrounding the production of this liquid that the clemists engaged in the work have been kept isolated by the several Zars for centuries. The secret has been handed down through the generations of this one family, who have all been chemists."

"Have you knowledge of the exact location of the storage vault of the crysinum bombs, Landon?"

"We have a suspicion that they are stored in caverns similar to these, under the arsenal on the other side of Leyris. Even now, one of our number who is employed in the arsenal, is investigating this very point. She may be discovered as a spy at any time and executed. When Doreen, for that is her name, joins us, you may question her yourself, Professor."

"Very good, Landon. Now you might enlighten me on just one more point. You say that Paul Serano, before his death, had developed the equipment with which you paralyzed the video and made the call to Roy. Is that equipment still in existence?"

"It is, Professor. It is located in a smaller cavern only a few steps from here. I will show it to you."

At this the professor arose and followed Landon through another winding passage, up a flight of steps cut into the stone, and to a small compartment fitted out as a workshop. As he examined the various mechanisms in this room, some completed, others only partly so, he commented to Landon regarding the stone steps they had just mounted. These were considerably worn as if by long usage, and Landon gravely explained that the caverns had been the refuge of similar fugitives for centuries.

"It is a pity that Paul could not have lived to complete his wonderful work," remarked the professor in admiration, as he examined some of the results of Serano's labor, "but I do see a faint glimmer of hope here. For one thing, here is a beam-transmitter not unlike some of our own, and after I master its workings, we may be able to find good use for it."

When they returned to the council chamber, several others of the group had arrived, and the professor sat at the table and addressed them:

"Friends. I do not want to seem officious," he said, "but I believe it will be to the advantage of all concerned if you will give complete authority to me over all activities of the group from now on. I see a vague basis for hope, but our work must be done with the greatest care, or failure will be the result. Will this be agreeable?"

Thelda answered at once, "Indeed it will, Professor. I am sure that all here will agree now, and I can vouch for the rest. We trust you implicitly and I, for one, feel encouraged already. Do the rest of you here consent?"

There was a chorus of assent, and the professor asked at once, "Where is Doreen, the lady member, who, you stated, was employed at the arsenal?"

"Here I am," spoke up a young woman who had just entered. "Any questions you would like to ask me, I will gladly answer to the best of my ability, Professor. But I must leave for the arsenal very shortly."

Doreen and the professor drew aside to a settee and conversed animatedly for several minutes. Roy saw that Zora watched this procedure closely, and he chuckled to himself. When the professor returned to the council table, he stated that he would like to hav some private conversation with Roy. Not that he had any secret plans, he explained, but that he wanted Roy's advice on something he had in mind before putting it to the rest. Naturally there was no objection, so he and Roy retired to Serano's workshop.

"Roy." he said as they entered the room, "this is even more serious than I had contemplated, and although I have an idea forming in my mind already, there is one big obstacle which may block the successful carrying out of our plan. The young lady I just spoke with told me that she is confident that the supply of the deadly liquid and of the crysinum bombs is in one great chamber immediately beneath the arsenal. She has, however, been unable to locate this chamber, and is now fearful of entire failure, since she has been under more or less suspicion for several days. It is absolutely necessary that I obtain a sample of this liquid; also that the precise location of the supply be determined. One possibility is suggested by another statement of Doreen's. She told me that Pietro, the commander in charge of the arsenal-a man with a viciousness of disposition not exceeded by any of the Munanese-has a soft spot in his heart for Zora, who is employed in the Zar's palace as tutor to his children.

She suggests that, through Zora, this information might be obtained."

The professor flushed as he repeated the last words, much to Roy's secret delight. "Well, how do you think this could be arranged?" asked Roy.

"By the usual power of woman over man," he replied, "The trouble in this case is that Zora has repulsed him for years. Besides, she is under constant surveillance in the daytime, when in the Zar's household. I hesitate to approach her on the subject, as I consider her a very high type of woman and she might setiously resent the surgestion. What do vou think?"

"But," Roy answered, "we are all in this thing to the bitter end, and I am sure that she, as well as any of the others, will do anything that might be necessary. I cau see your interest in this admirable woman-as you, no doubt, can see mine in the glorious Thelda. But we must not think of personal preferences now. My advice is to put it up to her at once."

They reentered the council chamber, and the professor called Thelda, Zora, and Landon aside to talk over the matter. To his surprise, Zora did not oppose the plan, although she made it plain how repugnant it was to her to be compelled to change her attitude with respect to Pietro's suit. She felt, however, that she would be able to act the part. Knowing how important such a move might be, she did not hesitate. It was decided that she would return to her duties and again take up her normal life in her city apartment, using her own judgment as to the best means of ensnaring Pietro and inveigling him into a disclosure of the desired information. It was with the deepest regret that the professor completed the arrangements and, as a final precaution, he provided Zora with one of their ancient hand weapons and taught her how to use it. Zora felt that at least a week would be required for her work, and the portion of the group which was assembled bid her good bye and good luck when she left. The professor accompanied her to the end of the passageway and did not return for some little time. What took place between them at this parting will never be recorded, but when he returned, he seated himself at the council table with the most serious mien he had displayed since their arrival.

#### VIII.

FTER Thelda, Landon, Roy, and the professor had partaken of a satisfying luncheon in Thelda's apartments, they returned to the council chamber. The professor and Landon repaired to Serano's workshop where they spent the afternoon, thus leaving Roy and Thelda together. This suited Roy exactly, and did not seem to be unpleasant to Thelda, either. She spent the time showing him through the various connecting caverns of the underground refuge, and the several luxurious living compartments which had been hollowed from the solid rock. The permanent dwellers were mostly in their living quarters, and Roy became better acquainted with these during the several visits they made. More and more was he impressed with the beauty and the sweetness of the women of the group. They far outshone the beautiful women of The Outside, not only in physical perfection but in mentality as well. He soon observed that much of their conversation was perfunctory, and seemed to be only a medium of establishing contact for an actual interchange of thoughts. When he remarked about this, Thelda informed him that his surmise was correct; that thought transference among the group was a common accomplishment; that it was a development of their own mentalities and was not shared by the Munanese in general. This amazed Roy and to him accounted for some of the sensations he had had of hearing the golden voice when he was still thousands of miles from Munan. What if Thelda was now reading his thoughts? If she were she must already know that he loved her. It must be then, that she was not unreceptive, since her actions were very friendly, even affectionate. True, this might be due to her gratitude to the two strangers for their response to her plea for assistance. Try as he would he could obtain no inkling of what was in the mind to which his own must be almost an open book. But his resolve to win this glorious creature did not abate in the slightest degree.

That night when the council assembled, Zora, Doreen, and Ramon were missing. They had anticipated the absence of the courageous Zora, but the non-arrival of the other two caused considerable uneasiness in the group.

Thelda, in calling the meeting to order, advised the members of what had been done thus far. Unanimous approval was given of the acceptance of the professor's leadership, and of what he had already accomplished. The professor them arose and addressed them:

"Dear people. I am not ready as yet to give you any real hore; but I can say that my research thus far has been successful, and that if your dear comrade, Zora, succeeds in her mission, our hopes will be strong indeed. The time is very short, but there is nothing which can be done outside of that which is now being attempted. It will be necessary for Roy and myself to remain hidden away here with those of you who are already forced to reside here permanently. I know that this will gall the adventurous spirit of my friend from The Outside, but it is absolutely imperative, for if either of us ventured forth into Munan and were recognized as strangers and captured by the Zar's police, all of our plans would be brought to naught.

"This afternoon, with the aid of Landon, who provided me with samples of the metal crysinum, I have learned several things of value. As you know, crysinum is as transparent as crystal, as hard as steel, and as light as aluminum. Today I have, in your deceased leader's workshop, succeeded in making a chemical analysis of this metal, also in determining its electrical and mechanical properties. I have also constructed several vessels from this material; retorts, beakers, test tubes, and thistle tubes, for use in analyzing the deadly fluid when we obtain a sample. The most important work of the afternoon was the construction of a receptacle of crysinum which may be used for obtaining the required sample with safety. This receptacle must be placed in Zora's hands at once, and I would like to have a volunteer to carry it to the city without delay.'

Two-thirds of the assembly volunteered at once, and the professor chose the young woman Allayne and the man Theron to accompany her. Both were residents in the city and, so far, had not been under suspicion. Allapne was well acquainted with the location of Zorá's apartment, and Theron was physically well able to protect her from any ordinary danger she might encounter. When these two left, the professor continuted:

"What we would like to do is to obtain one of the crysinum bombs from the Zar's storage vault, load it and our entire group into my aero, rise vertically ten or fifteen thousand feet and destroy this island by dropping the deadly bomb from the aero. The group could then proceed to The Outside at leisure, since the destruction of the city and its power houses would forever remove the neutralizing wall. Unfortunately, this is impossible, since the size and weight of one of the bombs is entirely too great to permit of its successful removal from the heavily guarded secret storehouse. Our next best hope is to obtain a small sample of the compound, with the idea that I shall be able to determine some means of destroying the entire supply from a distance. That is the reason for Zora's distasteful assignment, and that is why I have sent Allavne and Theron with the crysinum receptacle. Let us have hope."

When the professor finished, there was a babble of excited voices. All seemed pleased with his progress and all were considerably encouraged. As the evening wore one, the uneasiness over the continued absence of Ramon and Doreen increased. Surely some misfortune must have overtaken both. All that could be done was to hope and pray that they had not been apprehended; that the safety of the remainder of the group had not been endangered by their capture, if captured they had been.

It was very late when Theron and Allayne returned, and their report confirmed the worst fears of the group regarding the two missing members. Doreen had been arrested in the arsenal and executed by the Zarist troops, after being tortured savagely in an effort to learn of the whereabouts and identity of her accomplices. The brave girl had steadfastly remained silent and finally died a noble martyr to the cause she had espoused. Ramon had been killed outright by a police officer, when he was discovered in an attempt to carry away some records from the administrative offices of the Zar's "Council of Five," where he was employed, In sadness was this news received by the group. The report of the successful meeting with Zora did little to cheer them up. As yet Zora had been able to do nothing; the turmoil caused by Doreen's discovery made it unthinkable to approach Pietro in any way.

For several days Roy was in a miserable state of mind. The professor spent practically all of his time in the workshop, and Roy felt absolutely useless as an adjunct to the group. What made him feel still worse was the fact that he was being studiously avoided by Thelda. She addressed him pleasantly enough when he saw her, it was true. But he found it impossible to engage her in conversation alone. She always made some excuse to get away, and the little initimate talks in which they had engaged on the first day could not be repeated. After the firth day he became morose and uncommunicative, spending the greater part of his time in the Pioneer. Little as he saw of the professor. he spoke very little to him when he did see him.

Finally the professor, busy as he was, noticed this, and took Roy to task one night when he returned to his sleeping quarters. "Roy," he said, "do not let this thing break your spirit. What is tormenting you anyhow?"

"Well, for one thing," was the response, "I am about as much use around here as two tails would be to a dog. Why was I ever chosen for this expedition?"

"That is not the only trouble with you my boy. Do not think that I am unaware of your love for the little leader of this group. And do not feel discouraged at her actions. The little girl is aware of your feelings towards her, and is only taking some time to make up her mind as to what to do about you. I have observed her closely several times, and am confident that your feelings are reciprocated and that all will be well. Give her a little time, and do not give up hope. As to your uselessness; what is anyone else in the group doing? Outside of my own efforts, in which I do not now need your help, the only other work for the cause is being done by Zora. I am becoming much worried at her silence. We have only slightly over a week left. So forget your grouch, my boy. Get a good night's sleep, and you will feel better in the morning."

Acting upon the professor's advice, Roy turned in. In the morning he stepped out of the *Pioneer* with more confidence than he had felt in several days. If he could only get out into the sunshine, he knew that he would feel different.

### IX.

EANWHILE Zora had been having her troubles. She dared not approach Pietro directly, for this would be certain to arouse his suspicion. Instead, she carried on her work in the Zar's household as usual. Evenings, attired in the most attractive gowns and looking her absolute best, she frequented the hotel, where she knew that Pietro was accustomed to dine. On the third evening he encountered her in the lobby and stopped at once. A change in expression came over his cruel face, the admiration and tenderness in his demeanor made him appear, for the moment, almost human. As he addressed her, Zora did something she had not done for years. She greeted him civilly and with a half smile. Thus encouraged, Pietro begged her to dine with him. Not wishing to overdo her part, she refused, but after an hour's insistent pleading on his part, she compromised and agreed to meet him for dinner the following evening. With triumph in his eyes, Pietro left her. She returned to her apartment, there to do a little gloating on her own part. It had not been a bad night's work, she thought.

The following evening Zora appeared at Pietro's hotel, ravishingly gowned, and a picture of mature beauty from the top of her exquisitely colffured head to the soles of her modishly shod feet. Pietro was speechless with admiration at first, but eventually recovered his equanimity and proudly led her to his table in the dining room.

Dinner was a success. Zora was friendly, but not too much so. Pietro was as if enchanted by his comuanion's nearness. He was exultant, too, and pressed his advantage to the utmost. He begged her to accompany him to the opera after dinner, but she refused. She cleverly turned the conversation to the subject nearest and dearest to his vain soul; his high position in Munan, and the arsenal of which he had complete command. Zora feigned great interest when he boastingly told of the importance of his work, and, insinuatingly, she flattered him until, in his vanity, he finally offered to take her to the arsenal and show her through it. This was the identical thing for which Zora had maneuvered, but she did not display too great enthusiasm. and consented to visit his stronghold the next evening only after considerable persuasion from him. Pietro informed her that he could do her no greater honor: that he was risking his position, perhaps even his life, in thus violating the strict order of the Zar that no outsider was ever to be admitted to the arsenal. He thought that, in thus impressing upon her the risk he was running for her sake, she would reward him by further softening in her attitude towards him. Little did he realize the purpose behind her acceptance of his offer. Little did he realize that he had been tricked into making this offer.

Next night Zora appeared at the hotel as usual, but this time she had with her and hidden in her clothes, the hand weapon which the professor had given her, as well as the crysinum receptacle which he had sent. After dimig with Pietro she was taken to a small aero, which left from a landing stage on the rool of the hotel. In a few minutes they had reached the gates of the arsenal, where they were stopped by two huge guards who menaced them with leveled weapons. At a curt word from Pietro, they lowered the weapons and allowed the two to pass, muttering disapproval. With a growl, Pietro warned them to be silent, on pain of death, and with that they entered.

Now was Zora's opportunity, and she used all of the feminine wiles at her command to further put the braggart at her side under her spell. She succeeded admirably, for Pietro took her from one end of the arsenal to the other, explaining to her eager ears all that was seen. Finally they had completed their inspection of all buildings on the surface and Zora's heart fluttered wildly as they neared a blank metal wall at the far end of the remotest building. Hesitating for a moment as they faced the wall, Pietro was about to turn around and leave. Something had told Zora that the secret for which she searched was hidden behind that blank wall. and for a moment she leaned her body close to Pietro, the fragrance of her breath on his face, her eyes bright with expectancy. With a shrug of decision, Pietro took a small instrument from his pocket and placed it close to the metal wall. There was a stream of crackling blue fire between the instrument and the wall and suddenly, before their eyes, the partition had vanished, disclosing a spiral of steps cut into the solid rock and leading downward. He produced a light and again presented the instrument to the point where the metal wall had shut them off. Again the crackling flame and the wall was in place, closing them off completely from the room they had just quitted.

As they descended the winding steps Zora counted

them carefully while Pietro was informing her, with the greatest solemnity, of the unheard-of privilege she was being accorded. Only five persons in all Munan knew of the whereabouts of this hiding place, he told her. Only the Zar and he were in possession of means of entry, and his life would surely be the penalty were the Zar to learn of this visit. In convincing words, Zora assured him that she would never divulge the fact of the visit to a soul in Munan, making the mental reservation that the professor was not of Munan, therefore that she could tell him without breaking this promise. After counting one hundred and thirty-two steps. Zora followed Pietro into a huge cavern similar to their own council chamber but much larger. Here were stored the nearly two million crysinum bombs, and a vat of the liquid which they contained. Here was the chance for which Zora had worked. She must not fail! Pietro told her of the terrible effectiveness of the bombs, and of the difficulty in producing the liquid content. With the fanatical fluency of the Zarist, he expanded upon the conquest of The Outside which was so soon to come.

While he talked, his greedy eyes devoured her and suddenly, with no warning, he had leaped to her like a wild animal and, extinguishing the light he carried, had her in his arms and was crushing her to him with brutal strength. Zora struggled frantically and finally squirmed into a position where she was able to draw the professor's weapon from the folds of her gown. Breathlessly she held it against Pietro's writhing body and pressed the button. There was a purple fare which lighted the entire cavern momentarily, and Zora lost consciousness!

Х.

HE eighth day had passed and still no word from Zora. The group was becoming panic-stricken and the professor, although deeply worried and heartsick himself, was endeavoring to calm and reassure them. For three days the members of the group who lived in the city had been unable to learn of Zora's whereabouts. She had not been seen, either at her apartment or at the Zar's palace during that time. Further than this, it had been reported this last day that Pietro had disappeared, and the authorities were at this moment searching for him. A strange woman had been seen to enter the arsenal grounds with him, but neither had been observed to leave. Possibly, even now, the authorities were searching underground passages for the two. The situation never had seemed more serious.

Roy had been avoiding Thelda for several days, as she had avoided him, though hit hurt him greatly to do this. Now, in this hour of darkness, she turned to him for comfort and he was overjoyed. They were seated apart from the remainder of the group in solemn conversation, when all were startled by the shrill cry of a feminine voice from the passage and Zora, haggard, worn, and bedraggled, burst in upon them. Thrusting a small metal cylinder into the professor's hand, she cried, "Here is the sample," and collapsed in a heap at his feet. Tenderly he lifted her limp body and, in sudden abandon, pressed his lings to hers. Realizing that he had betrayed himself, he flushed to the roots of his hair, relinquished her to the women, and rushed off to the workshop with the crysinum cylinder which she had handed to him.

No time was to be lost as the excitement in the city might well lead to their detection. Frenzield ythe professor worked in the laboratory, with Roy and Landon drafted as assistants. At last Roy was doing something to help and he was happier than he had been since the first day. Soon Thelda came to the workshop with Zora, who had been revived by the kind administrations of the women of the group. With a fond glance at the professor, who returned it with some embarrassment, she told her story:

"Professor, you must go right ahead with your work," she started, "for I am a hunted woman now and there is a chance that we may be discovered, though I am pretty sure that I left no trace in coming here. It was necessary for me to dispose of seven Munanese with your marvelous weapon, but as they are utterly destroyed, leaving no tell-tale bodies, the chances that my escape can be traced are fairly remote. If no others saw me, we are safe."

With great rapidity, she told her story up to the point where she had struggled with Pietro in the underground storeroom. All listened intently while the professor proceeded with his first test of the deadly fluid.

Great was the care with which he handled the small cylinder which Zora had brought. He spread on the floor a sheet of crysinum about four feet square, then directed Roy and Landon to bring him as large a loose stone as they could carry from one of the passageways. The two men struggled back with a block of stone between them which must have weighed close to two hundred pounds. This they deposited on the sheet of crysinum in the center of the room. All stood aloof at the professor's bidding as, carefully, he allowed one drop of the precious liquid to fall on the surface of the rock. As it struck, there was a slight puff of yellow vapor at the point of contact. They watched in astonishment as the vapor quickly surrounded the stone with a venomous sputtering. Immediately the rock began to shrink in size and, in less time than it takes to tell, the large piece of solid granite had completely vanished, leaving not a trace on the surface of the glistening crysinum sheet.

The onlookers let forth a simultaneous gasp as the last of the rock disappeared, looking at each other in wondering realization that the properties of this fluid had not been exaggerated in the slightest degree. Zora, as soon as she had recovered from the surprise of the sight, continued with her story, and the professor went on with his experiments:

"When I recovered consciousness in the underground chamber, I realized that I had lain there for a long time. Now I know that it was for nearly seventy-two hours. I remembered what had occurred. Hearing no sound, I felt around for Pietro's body, but could not find it. However, I found his torch and, as I flooded the cavern with light, I saw that there was no body in sight. Near the spot where I had lain in a coma, I found all of the metal articles his pockets had contained, including the instrument with which he had obtained entrance to the spiral stair. I could not then understand what had become of him--whethere he was still alive and had left of his own accord, or whether his dead body had been removed by others. At any rate, I did not forget what I had come for and, advancing to the open vat of the deadly liquid, I filled the little crystium cylinder carefully.

"Then I appropriated the instrument which had belonged to Pietro and cautiously crept up the spiral stair. When I reached the metal wall, I listened intently, but could hear no sound. Placing the instrument near the wall, as I had seen Pietro do, I located a small switch or push-button on its side. This catch I pressed. As had occurred when we entered, the crackling flame appeared and the wall vanished. stepped into the room through which we had passed, and found it deserted. It was still night and I extinguished Pietro's light. With a palpitating heart, I traversed the length of the building and stepped into the open air. Keeping in the shadows as much as I could, I finally came to the gates without having been discovered. My problem now was to get out, and I racked my brain for means of doing so. Only the two guards were in sight and they paced to and fro before the locked metal gates. Finally I tiptoed close to the bars and addressed the nearest guard softly. He drew over to the gate, and I tried to convince him that Pietro had sent me out alone. He called the other guard at once and both leveled their weapons at me. There was nothing for me to do but point your weapon at each in turn and press the button. As a purple ray shot forth twice in rapid succession, both bodies stiffened, emitted a purple aura for a moment, and disappeared into thin air as we have just seen that stone vanish. Now I understood what had become of Pietro and I was glad-glad. It is horrible to feel that way, but I could not help it.

"Luckily the nearest guard had been very close to the gate, for, with his disintegration, there fell to the ground the bunch of keys which had swung from his belt. These were within my reach and, thrusting my arms through the bars, I obtained them and let myself out, re-locking the gates behind me. As I ran down the hill from the arsenal, I plumped straight into the arms of four of the Zar's police. Eluding them, I continued at the greatest speed of which I was capable. Apparently they wanted to capture me alive, for they did not discharge their weapons. The first gained on me, then the second and third, and in turn I was forced to dispose of them with the disintegrating ray. I had become exhausted, but I kept on running until I reached the entrance to our retreat. I thought that I had lost my fourth pursuer but, just as the stone swung aside for my entrance, he crept up on me from the underbrush. That was when you heard me scream. Luckily, I was able to get the professor's weapon into action again and I disposed of him as I had of the others." She shuddered at the memory of the wholesale slaughter.

All were much excited over her story, especially the professor, but the two women left at once so as to permit the professor and his two assistants to continue with their work. Zora's narrative was later repeated to the assembled council, who now numbered but nineteen, excluding the three men who were hard at work. Several had been killed that day in the city, during the excitement which followed the discovery of Pietro's disappearance and of the open entrance to the secret vault under the arsenal. The disappearance of the two guards and four of the Zar's police had given the impression that a great conspiracy was under way, and the Zar was executing suspects right and left. The professor would indeed have to hurry.

## XI.

WO days and three nights the men worked almost incessantly, alternating between the workshop and the Pioneer and only obtaining occasional snatches of sleep. During this period none of the group dared leave their hiding place. Thelda and Zora became constant companions. Before long, both had admitted privately their love for the two strangers from The Outside. Thelda ruefully thought of her avoidance of Roy and the reaction which it had produced. She had done that after the first day for the reason that his thoughts had told her of his love, and she had not been sure of herself. Now she realized that she loved this young man and could never live without him. But she was no longer able to bring his thoughts to her mind, for there was now a misunderstanding between them. She lived in constant dread that her treatment had killed the love which had at first existed. Zora's feelings were of a much calmer nature. She was serenely confident, and happy in the love which she felt sure was returned.

In the meantime, Roy was much too busy to have constant thought of Thelda but, strangely, the golden voice intruded itself upon his consciousness at the most unexpected times. Success had crowned their efforts, and on the morning of the third day, the three tired men burst forth into the council chamber with a shout of triumph which brought all members of the group on a run.

"Folks, we have the solution," the professor exulted loady. "Listen. Get all of your belongings together at once and carry them aboard the *Pionoce*. We are all going to The Outside to finish our lives in peace and happiness. And we will destroy this miserable island as we leave."

There was a shout of joy as all gathered around to hear the details. At that moment there was a crash at the entrance to the main passageway. Their retreat had been discovered by the Zarists!

"No time for explanations now, people!" cried the professor. "Get everything you wish to take with you and stow yourselves away on the *Pioncer* immediately. The entrance stone is some ten feet thick, and should resist their efforts for a long enough time to permit our escape. Evidently they have not learned the secret of opening the door. But hurry."

The group scattered in all directions as the crashing at the entrance continued with increased violence. Soon there was the sound of automatic rock drills from the passage, but all, except the three men were already aboard the *Pioneer*. With a sudden terrific jar and a yell from the attackers, the stone door came down and they swarmed through the passageway. Roy, Landon and the professor had remained behind to see that all reached the aero safely. As they retreated towards the passage leading to the chamber in which the Pioneer rested, the enemy streamed into the council chamber in great numbers. Roy and the professor shot forth the purple rays from the hand weapons time after time, bringing down many of the Zarists and temporarily stopping the rush. Landon recklessly hurled himself into the massed troops and was down at once. Seeing that nothing could be done to save poor Landon, Roy and the professor ran for the aero and just had time to get the entrance manhole bolted from the inside when the attackers entered the second chamber. In a flash the professor was at the controls and the sphere started revolving as the enemy swarmed around the aero. With a great rush, the Pioncer arose, straight as an arrow, for the circular opening far overhead and they were in the sunshine, rising at terrific speed.

#### XII.

We here the altimeter indicated thirteen thousand feet, the professor turned the controls over to Roy, instructing him to keep the *Floncer* hovering in its present position. He pulled a lever which uncovered all portholes in the bottom of the aero, and as he rushed back to the salon, he cried to all of the excited group to watch the scene below through the glass covered openings. All complied immediately, kneeling on the floor about the several windows. The professor uncovered a small mechanism which had been installed in the salon, and started manipulating its controls as he peered through the telescopic sight.

"Watch Leyris now, folks." he shouted, and as they turned their eyes in that direction, there was a hum from the machine which the professor was operating. A faint ray, like a beam of sunlight which might have been reflected from a mirror, shot earthward, striking exactly at the last building of the arsenal, which could be seen as a small object far below.

Immediately there came a violent upheaval at that spot and a heavy yellow vapor poured forth from the point at which the ray had been directed. This yellow vapor crawled swiftly over Leyris like an octopus surrounding its prey, and the mountain melted away beneath their eyes as had the stone in Serano's old workshop. The victous yellow vapor continued to pour forth as from the crater of a volcano, and all in its path went the way of the mountain.

Munan was overtaken by the fate it had decreed for The Outside. None could escape. No quarter could be asked. None could have been given. No pity stirred the breasts of the little groups watching in awestruck silence.

When the vapor reached the city, tall buildings sank into the yellow turbulence like pillars of ice undermined by boiling water. The population could be seen swarming into the occan like a rippling massed formation of army ants. In five minutes all that remained of Munan was a setting mass giving the appearance of ebuiltent subplur. This rapidly disappeared into the depths of the Pacific, leaving in its wake a foaming swirl, which drew down with it the last of the survivors.

Gone were the invisible aeros. Gone was the deadly fluid and the supply of crysinum bombs. Gone was the race which hated the world with so great an intensity that this same fate had been planned for billions of innocent and unsuspecting victims. Gone were the results of centuries of misdirected mental and physical effort. The Outside was saved!

The various groups around the portholes reacted suddenly; some jumped to their feet and shouted for joy, others among the women sobbing in hysterical relict. Slowly the professor arose from the ray generator and looked for Zora. She came to him immediately and thanked him with tear-dimmed eyes, and the others crowded around, embracing him in their joy and praising him as the deliverer of mankind and of themselves from a most terrible fate. After what they had just witnessed, they could visualize more clearly than ever the awful destruction which had been prepared for The Outside, and their thankfulness knew no bounds.

Disengaging himself, the professor addressed the group, which was crowded into the little salon:

"Dear friends, we have accomplished what we started out to do. We should be grateful to the Supreme Being who has aided his humble servants in saving the world at the expense of Munan, the accursed. There are only twenty-one of us left now, with poor Landon gone. Though we are somewhat crowded for sleeping accommodations, you will be able to make yourselves fairly comfortable on board the Pioneer for the comparatively short journey ahead. With your consent we intend to return to New York in the shortest possible time. The neutralizing wall has now left us forever, along with the island of Munan, and we can depart unhindered. We shall arrive at our destination in twelve hours. Afterwards I will tell you the story of our labors for the past few days and how this destruction was accomplished. For the present, suffice it to say that, in the experiments with crysinum and the deadly liquid, I discovered that a stream of electrical impulses of a definite frequency would cause a reaction between the fluid and the enclosing metal which would start the destructive action and render the metal no longer a resistant. The rest was easy, since we had available the small beam transmitter which had been constructed by your deceased leader. This I was able to modify so as to produce the required frequency, a ray of which you saw projected to the spot which Zora reported as the location of the supply of crysinum bombs.

"Now 'tell 'me; do you all wish to return with us to our home and there take up peaceful lives as inhabitants of our world, which nevermore will be 'The Outside' to you? Or had you rather be landed in some other location less thickly populated? Roy and I have both grown to love you all during the short time we have known you and we hope to have you always near us."

Enthusiastically, all decided to make the city of the strangers' choice their own future home, and to remain together as a group, at least until such time as they had become accustomed to the new order of things. In little knots they gathered on the several settees in the salon and cabin, there to discuss plans for the future, which, for the first time in their lives, seemed bright.

#### XIII.

HE professor proceeded to the control room, where he found Roy anxiously awaiting him.

■ "Well, it is all over, my boy, and our dear old world is saved," said the professor in a tired voice. "Let me have the controls and we will start for home at once. If all goes well, we will be there in time to get to our own familiar beds by midnight, Washington time. Do you realize that it is now only eight a. m. Munan time? That attack on our retreat was intended as a surprise at dawn. Fortunately none of our number had been able to sleep on account of the excitement and all could thus prepare quickly."

"Yes, I noticed the time before we left," replied Roy, who was still shaken up because of the destruction of Muran which he had witnessed in the periscope. "But, Professor, I do think that you should get some rest at once. You know you not only worked harder, but had considerably less sleep than poor old Landon or myself these past few days. You must be worn out."

"I am pretty well exhausted, Roy," he responded, "but another twelve hours will do no harm. Besides, I feel a personal responsibility for those dear people we are taking back with us. You may relieve me at the controls if you wish, but I want to be here all the time. I could not sleep now if I would."

He took the controls from Roy and headed for home, bringing the speed of the *Pioneer* to nearly six hundred miles an hour. Softly Roy closed the door as he left.

Seeking out Thelda, he found her alone in the tiny galley, examining the cooking utensils with deep interest.

"I knew that you would come to me, Roy," she whispered as he closed this door also and sprang to her side. "Oh, my dear, why have you been so blind, and why have I been so uncertain? Your mind spoke to mine long, before you had even reached Munan, long before I had even seen you. I knew then that you were destined to love me. I think that I have loved you myself ever since I first heard your voice, which was over the videophone."

"Thelda, dearest. My wonderful—golden girl," was all that Roy could say, as he folded her yielding body to him and their lips met in the first kiss. No further words were necessary—their minds were now in close communion and to each was revealed the perfect sincerity and deep affection of the other.

The *Pioncer* sped swiftly toward what was now to be the home of both. There, high above the Pacific, as Roy and Thelda continued in their embrace, the sturdy areo carried another happy pair.

Forward, in the control room, the professor had just turned his beaming face to gaze into Zora's adoring eyes. They smiled in complete understanding, and two more pairs of lips met in a kiss of real love.

# **OUR OLDEST READER**

Editor, AMAZING STORIES:

Genilemen: I have been a reader of your magazine for the past four or five months and though I'd drop, you a letter (typed for me at the office of a friend), to let you know what your oldest reader thinks about AMAZING STORIES. I think I can lay claim to being your oldest reader, because if I last three more years I'l be 100 years old, and I rather think I'l live to be 100. And it is my hope that if I deserve any kind of a heaven, it will be a place where I can learn to know all the mysteries that stretch in an endless vista before the limited sight of us mortals.

First of all, let me disagree with one of your correspondents who complains about the quality of art work and the paper in your magazine. Your cover designs may not be artistic, but they have a kick to them, and that's what I read the magazine forthe kick. As to the paper being cheap, you should know, but it suits me fine. At my age it is hard to read much

Many magazines have a smooth, shiny paper, and with the strong light I have to use it is almost impossible to read them without a headache. The dull finish of your magazine does not glate under strong light, and anyone who has any regard for his eyes ought to appreciate this fact. The only improvement I could suggest would be to use a blacker ink.

I have always been a voracious reader of scientific fiction, and it has been during my lifetime that many of the great scientific fictionists have done their work. When I was a boy, long before the Civil War, I traveled 300 miles on horseback to see a "flying machine" that a mechanic was building at Troy, New York. He had been getting "funny writeups" in all the papers in the country for his crazy notion, and his delight was pathetic when I actually expressed confidence that some day men might fly. I helped him with the machine for some weeks, but we never were able to get it off the ground. It was finally wrecked in a gust of wind. The

world was not yet ready for aviation. In those days the idea looked as crazy as a trip to the moon does now.

During the Civil War, inspired by some "fool story" by a wildly imaginative faction writer, several of us in the Union Army wanted to drift over beleagured Vicksburg in a "fire balloon," as they were called in those days, for the purpose of drawing maps of the fortifications. Although we offered to stand all the expense ourselves, permission was not given. The Union generals feared that the attempt would set the army up for ridicule before the nation.

Having lived through a period of tremendous development of the sciences. I am impatient with those short-sighted individuals who object to a scientific story because it is a little ahead of present-day knowledge. These things will all come, in some form or other, and even I may live to see them. I should like to wander from star to star, drinking in the beauty and the awful solitude of the airless spaces. I've had a lot of fun in my 97 years of life, and when I have to shuffle off, if I've been as decent to my fellowmen as I've tried to be, I'm going to have a lot more fun. As far as I'm concerned, you don't have to print any more of Jules Verne's writings. They were far advanced in his time, but science has caught up with so much of what was only fantastic fettion in Verne's stuuf, again, after all these years. But as to IH. G. Wells, although I have read all his published works, his style is so lucid—his plots are so delightful—and his imagination is so penetrating, that it is a constant delight to read his works over and over again.

In the February issue I got a lot of enjoyment out of Baron Munchhausen's scientific adventures. I was surprised that you had not published anything before by Mr. Gernsback. He is an able and finished author and you ought to contract with him to become a regular contributor before some other magazine grabs him. There is more plausible science in this story than in most. The illustration on page 1060 was very well done. What tickled me is the

done. What tickled me is the rheostat on the barrel head. It sure reminds me of the old-time hay-wire amateur station. My grandson had one hack in 1910 or '11 and he and I had a lot of fun making the nights hidcous. He has boys of his own now and seems to be getting old, because he says he hasn't time to read AWAZING STORIES. But his boys are coming along and seem to have the right stuff

> in them. They can identify transformers and condensers and things like that by their pictures already. In a few more years they'll be regular readers of yours. "Four Dimensional Sur-

gery" by Bob Olson is a much better story than the one about the roller press which you printed not long ago. Not only is it so plaus-

ible as to be almost convincing, but it is as tense and thrilling as any wild west blood and thunder yarn. It actually had me hanging on to the chair to resist the ether drift.

In the October, 1927 issue was published the photograph of our youngest reader. The above is a photograph of our oldest reader, and letter which he sent us

"The Fighting Heart" is a whimsical and entertaining yarm. Not only that, but it ought to satisfy those who yearn for the literal truth, because it is not only possible but practicable. Back in the stone age men used to eat their enemies' hearts in order to acquire their courage. Their imagination did the trick then. If now men can acquire a fighting heart by surgery, even if the surgery is imaginary, then it will be just as effective now as it was in the stone age.

"Smoke Rings" is another very convincing story. Everyone knows that whirling rings will travel much further than ordinary puffs of gases or air. Why doesn't somebody experiment along the lines suggested by Mr. McLociard?

I am a very religious man. I know that in a few more years I will have to turn in this old worn-out chassis for a new celestial chariot. Without being flippant about it, I expect that some living entity of me will keep on going and cannot die.

E. E. TWIGGENS, Box 344, LeMars, Iowa.

# AN AMERICAN JULES VERNE

SolvE of our readers probably remember the exbibition of the Dr. Frank O'Brien collection of Library a year ago. These had a great circulation in their time. They were largely of the adventurous type, and were by no means to be considered as unworthy of attention, because many of them showed genuine merit. A publisher, Frank Tousey by name, started a sort of rivalry or following up of the Beadle novels by a series of publications of stories, also of adventure, and designed for by readers, which, under various names, were sold for the price of five cents each. Such titles as the Five-Cent Library or the Nickel Library

Ints is a portrait of Lu Senarens, who great industry and vivid imagination. Itinstrations given are intended to contrast the author's imaginary structures of what'a been done seven decades after these old engravings were published.

was given to them by the publisher. They came out once a week, and each one had a picture-wood engravings were used in the olden days—of an episode or of some object from the story. A number of these stories were written by a prohic author by name of La Semareus, who wrote under the pen name "Noname." Each story ran perhaps 25,000 to 45,000 words and the author at first wrote them in long hand, and saw them through the press, each one in the allotted seven days. It would be hard to find a record of how many he wrote. What interests us in the stories is the fact that he drew on his vivid imagination and described many things which were reckoned as absurd and impossible in his



In the above is abown Mar. Senatens' idea of an armored car used for attack or defense. It will be seen how (closely it comes to the caterpillar tank used in modern warfare. It is a matter of surmise hosting the wing position of the entry of the wing position of the Our author shows above a very interesting motor sied, driven by a propeller wheel at the stern. At the right is shown a more modern version of the self-propelled sied, in which the aerial propeller does the work. It is a question really whether Mr. Semarens' idea is not hetter.

days, but which we can no longer regard as such, for the simple reason that many of them have been realized. We give a few examples of the old wood cuts, with the modern successors or realizations.

He was born about 65 years ago and died recently. Mail robberies seem to have been in order in the nineties of the last century, so one of his characters, who figured in a number of stories, appears as the inventor of an a mored and armed magnetic carriage, which was to be used for transporting mail. Here we have a steam-propelled vehicle with an armored turret with guns protunding to protect the mail from robbery. Again we have an armored steam automobile, also suggestive of the steel-clad cars of the present day which are used for transporting money. This was conceived by the author some 35 years ago. So we find Frank Reade, Jr., one of his stock characters, protecting the United States mail. Another of his characters, Jack Wright. figures as having a sort of letters of marque and goes off to the Western Prairies to fight the stage coach roblers, "road agents" as they were termed. Both of these affairs bring us very close to the cateryillar tanks of the World War, with turret and guns.

ALL COLORISAN

Many of us have seen ice sleds driven by power. A spiked wheel is revolved at high speed and in contact with the ice biting into it, drives the sled along at high speed, but our young friend, Frank Reade, Ir., comes

> Below is shown one of Mr. Senerans' ships capable of traversing ice or water, contrasted with a very modern idea, where we find a "shoulder of mutton" or Marconi rig vessel embodying more modern ideas.

w is shown an armored turret car which ht manage to transport bonds, money and tiable securities even through the streets uch cities as New York and Chicago. If y looks more secure and more efficient a the modern one shown on the right in direct comparison with it.



out with what he calls an "Electric Snow Cutter," a sled propelled by a rotating spiked wheel. Exactly where the electricity comes in is not clear, but the picture of Reade. Ir.'s vehicle suggests that it is going at high speed, and racing with Eskimo dog teams. These are only a part of Scharens' very wonderful efforts, the fruits of what may be called a mechanical imagination. He described the Deep Sea Diving Bell of almost modern construction, a Flying Boat, an airplane, or rather several airplanes, a steam man that pulled wagons, a steam horse that did the same, and submarines.

In looking over the pictures of these conceptions, the



industrious author appears as a true predictor of mechanical progress. In SCIENCE AND INVENTION, of October, 1920, a number of Senarens' "inventions" were reproduced.

It is in order to ask what has made them possible in the present day, why were they not carried out in the early nineties when they were published? It is fair to say, that it was the invention and perfection of the internal combustion engine that brought so much of our author's ideas into life and realization. Ulysses, to conceal his identity from the cyclops whom he had blinded. called himself "Outis," meaning "no one." The American Jules Verne concealed his name under the title, "Noname."

The centennial of the birth of Jules Verne is but a few weeks back of us, and it seems fitting to show at this time that we too had a Jules Verne, a man whose industry in turning out reams of copy was as remarkable, as was his ingenuity in evolving the strange machines, prototypes of so much of the present, out of his imagination, though he died unheralded and practically unknown.



### HOW SCIENCE STORIES SHOULD BE WRITTEN-THE NEW FIELD OPEN TO AUTHORS

Editor. Am., zing Stoatra: Since you are good enough to invite discussion from your readers, I accept the implicit invita-tion in the spirit of the Irishunan who watched a brawl; "Is this a private light or can anyone get in?"

tion in the paper of the Irishuan who witched Strand Strand Strand Strand Strand Strand Strand Determined Strand Jule Verne being of current Berders, in shift Lake score of yourge stores the feaders, in shift Lake score of yourge stores the feaders, in shift Lake score of yourge stores the feaders, in shift Lake score of yourge stores the store between the store being and stores when strice to feat an any feaders and stores the store when strice to atom and their researce are however whe strice to atom and their researce are however be strice to atom and their researce are however be strice to atom and their researce are however be strice to atom and their researce are however be strice to atom and their strends the stores whe strice to atom and their strends the stores whe strice to atom and their strends the stores whe strice to atom and their strends the stores whe strice to atom and their strends the stores whe strice to atom and their strends the stores whe strice to atom and their strends the stores whe strice to atom and their strends the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores whe strice to atom and the stores the stores the stores the stores to atom and the stores the stores the stores to the stores the stores to atom and the stores the stores to the stores to the st

Iss SHOULD BE WRITTEN-THE REW FILL Marians with the Mariana of Janost any other imaginative writer. Mr. Wells knows him as the strength of the Mariana of Janost any other strength of the Mariana of Janost and Janos Wells and Janosta and Janosta and Janosta and Lunary plants and animals are such as might actually exist in eaverne of the smooth Scientific of possibility, but is should be plausible and the Animal Mariana and Animals are such as might actually that is should be plausible and the Animal Mariana and Animals are such as might and the strength of the strength of the tawa. Purely fanctual stories much before the ranged as transmers for "world lass" (all, world the "An marianger hyperheistic fortion would be "An marianger hyperheistic fortion would the "An marianger hyperheistic the strength of the "Animal for direct hyperheistic the tawa", in "The Food of the the "Animal of the tawa", in "The Food of the the "Animal of the tawa", in "The Food of the the "Animal of the tawa", in "The Food of the the "Animal of the tawa", in "The Food of the the "Animal of the tawa", in "The Food of the the strength of the tawa", in "The Food of the the "Animal of the tawa", in "The Food of the the "Animal of the tawa", in the the taway", the start the taway of the taway of the taway of the tawa", in the taway of the taway of the tawa", in the taway of the taway of the tawa", in the taway of the taway of the tawa", the taway of the taway of the taway of the tawa", the taway of the taway of the taway of the tawa", the taway of the ta

of your stories as "The Red Dust," "The Green Splotches" and "The Second Deluge" show a similar scientific feeling for cause and effect. Preston Slosson, Ph.D. University of Michigan, Ann Arbor.

University if years Names, a NA.





## A CRITICISM OF "THE DISINTEGRATING RAY" AND OF "BARON MUNCHHAUSEN"

Editor, AMAZING STORIES:

<text><text><text><text><text><text>

John A. Thomkins, Stillwater, Oklahoma.

#### THE ANSWER OF THE AUTHOR OF THE "DISINTEGRATING RAY" TO JOHN A. THOMKINS

Editor, AMAZING STORIES

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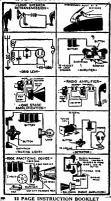
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substance. "It is any radioactive "The understanding is that protons are virtually impossible to remove singly from the nucleus, where they are much more firmly bound together than are the electrons circulating in the outer orbits."

orbits." As far as our friend the Baron is concerned you have made rather a good point about the gravity screen. But wheiler the art lost its weight or not it would be acted on by the surrounding atmosphere. We might magine that the gravity screen only affected solids.-EDITOR.]

#### NULLIEVING CRAVITY

Editor, AMAZING STORIES:

cuttor, AMARING STONIES Lam sending in this choping which I took from the Cleveland Plain Deler, thinking it would be of interest to some of your reaction,  $(-1)^{-1}$  the in-"NEWARK, N. J., Dec. 10-(-(AP)-The in-investigation of the source of the source of thein avertailed, was anonemed taken by Differencein avertailed, was anonemed taken by Differenceare flights from New York to Paris can be achieved"A high Bioprogram from Stream Laboure - although the"A high Bioprogram from Stream Laboure-

air flights from New York to Paris can be achieved in free or is known. In freed Street, Jahnson said be lad actually suspended a miniature plane in the air by neutraling gravity, and also that he could suspend a 50 pound weight in the air." In the Norember issue the Actionaling Di-tor the termine the same state of the termine clipping brings out the fact that gravity can be neutralized as was dere in this story. I would be glad to see more stores by Julie Verne. I have find no fault with the maximum

[All we can tell you about the dipping which you have sent tell you about the dipping which you have sent us from the Cheveland Plain Dealer, is to advise you not to believe a word of it. We deve be discovered, but any such prospect is ex-tremely remote.--EDITON.]



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## THE HORIZON LINE ON MARS-"TEN MILLION MILES SUNWARD"

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Ross L. Bralley, 617 W. Washington St., Oklaboma City, Okla.

<sup>10</sup> Utakhoma City, Oth, P-S., I an hoping you will stirt this letter in pour "Distustions Golumn" as some might be in-terented in my runnits, and I will be observed to The horizon distance is given by the point of theorem of a strongent to the same strike cities. The great cities of a sphere is the one with its radius the largest cities that the strongent of a sphere will give. The plane passing through the ratius of the largest cities that the store of a sphere of the largest cities that the store of a sphere the largest cities that the store of the store of the largest cities that the store of the store of the rest cities of the store of the store of the rest cities of the store of the store of the rest cities of the store of the store of the rest cities of the store of the store of the rest of the store would not cities the store of the Cayana ba-teresting explanatory note.—EDITOR.



# The FUTURE

## Professor A. M. Low

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## AMAZING STORIES

#### A KIND LETTER FROM A LADY FRIEND AND READER

Editor, AMAZING STORIES:

Have just completed reading your March issue. I am not competent to criticise the scientific aspect/ of any story, having learned all I know of science/ from those same stories. However, it strikes met that W. F. Hammond's story Laki-Dail, Destroyer of Soult, while very entertaining is certainly just f Souls, while little absurd. It is truly

of Spain, while very entertaining is certainly just It is train all of Mr. Weils that one of his gratest arts in writing it to make his story seem believe that it is logical for every little thing to believe that it is logical for every little thing to we have the ling of the start of the start of the charge of his faither in the start of the start charge of his faither in the 'basiness, and im-molistic display several index to show and the bas lab had ever unit in the same french fance. And all be had to do was to go to the tele-teraristic (result the show in the same french fance were in the theory regulated publications) was un-show.

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beyond the four walls of my home is which 1 pick models and the four walls of the pick of the pick models and venus, with side trips to the Moon and down to the heart of the carth, yra, even into the base no dealt that when time and greater re-sources allow Anazing. Strokings to be improved, it will be done. Until then, I will be perfectly con-tant with its present condition. On the here

Mrs. II, O. De Hart Anderson, Ind.

[This very interceding letter is from a member of the tair seamd she pipes an interceding of or can only accele to your point of view about errors occurring. Only tiose changed in actual produc-nosthifty of average of the seame of the seame possibility of average of the seame of the seame we rather minor your admission that you had to enjoy hability. Of course, he work of the future, and it is based on what rays may do in the future.



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### WALTER HINTON.

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#### FALLACIES IN "RICE'S RAY"

#### Editor, AMAZING STORIES:

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Philip M. Zimmerman, I.E., '29, 464 Montclair Ave., Betblehem, Pa.

Letkikem, Pa. [In the first "failings" pointed or by you, you probably failed to recall that the original demon-stration of the power of the ray, does not tell how long the ray was pointed to the sum. Insumed as the sum's gravitational unflucture upon this start ho is not a direction of our solar body, the effect would be felt. This effect would increase as the ray approached the sun, until baying reached the sun, the force is at its meanman

approached the sun, until having reached the sun, In the accound "fallacy," so indicated by yoo, no in the accound "fallacy," so indicated by yoo, no information is genn sourcessment that the reflector would have had to be much heavier. Perhaps the earth's orbit was changed slightly when the effect of the ray became apparent. The earth's orbit is likewise changed when a baseball is thrown into

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## AMAZING STORIES

the air. Both hodies attract each other, but the difference in pull is so great that the effect on the earth is infinitely small.

difference in pail is on rest that the effect on 196 Answering your thin! "fails,"; there is no reason for making allowances for the constraints of the ship was in an atmosphere of allositate zero. If was likewise in a vacuum spect, and a vacuum and the ship was in an atmosphere of allositate zero. If was likewise in a vacuum spect, and a vacuum affect oner side of the ship and would heat that affect oner side of the ship and would heat that a more notice the spectra of the ship and would heat that a more side of the ship and would heat that a more notice that the spectra of railout entery, the like the ship and the spectra of railout entery is the heat and on the opposite or ship will be absolute zero. What happens when they force Referring to your fourth channel "failer," we believe that the writer was recapitulating leasure multi-

miles. The fifth is not a "fallacy," the occupants of the ship probably did a great many other things besides eat and sleep. These, however, are common every-day occurrences and do not necessarily have to be mentioned

mentioned. In the sixth "fallacy," it is advised that the author does not claim the use of the range finder. If you will refer to his article again, you will note that be calls the instrument a range finding field

that be calls the instrument a range finding field glass. Seventh, it is purely a difference of opinion. Venus may or may not have daylight on one side and night on the other. The planet is so cloudy, that our observations do not permit of a definite assertion to the offect that it does or does not rotate on its axis.

rotate on its axis. Eighth, there is an error here, but not on the part of the author. You will find it quite easy to swallow a cup of cotice or eat a picce of candy even while standing on your head. In this event, you are deliberately delying gravity. You must remember that the food is moved through the

remember that the fose of mover through the semphage area of the mover through the semphage area of the semple area of the semple opportunity by not trying to intercent messager from other planets. The ray was even pointed to the semple area of the rate of a simosphere. We apprecise such intercents or circles as the rate of a simosphere. We apprecise such intercents or circles as the semple and move area of the semple area of the the form and the semicons compare known facts with fiction - LEITOR.

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you have your abouter and say. "He is no The strong." When he price your way you look at our another and say. "He flatters as, be is "the strong of the strong of the same strong of the strong of the same strong of the same strong the same strong of the same strong of your the price of the same strong of your strong of your price of the same strong on the your strong of painting in the same strong on the your your strong painting in the same strong on the your your strong and the same strong of the same strong of your strong painting in the same strong of the same strong of the painting in the same strong of the same strong of the painting in the same strong of the same strong of the painting in the same strong of the same strong of the painting in the same strong of the same strong of the same strong of the same strong of the same strong the same strong of the same strong of the same strong the same strong of the same strong of the same strong the same strong of the same strong of the same strong the same strong of the same

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## AMAZING STORIES

story whose tilt, Blaphemer's Plateau, 1 hope the world will remember as long and sloper than interest that the store of the store of the store bieres, it was the thenkally correct, absorbing, and the fiction content was as small as possible, con-sidering the togicy which is its more thalling in the different of a fassital archeologist directorying what he could not assimilate in his own much rather than ict other people alone to make ther own detainly and only too traggically futc. (4??)

(4?) Which beings me to the point of this letter, I am 2) years of are metrices budgetally impossible, sere farm, which noe are in culturation, a good metricopy balance, and quiet a planning of the provide the series of the series of the series there are an another and the series of the series there are an another and the series of the series there are an another and the series of the series and the series of the se (1) - -

(1) What I want, is to get in touch with from one to accrete the strence attr. who are multirs work in the strength of the str (2)

(2) In other words, I want to organize a small re-search station, where any imaginable line of work may be followed out to the best of the investiga-tor's ability, equipment, etc. (3)-

(3) My motive in doing this is purely selfsh. I will thus have help growing my own living, help costaionally with my own experiments, and what born idea, who will be able to help talmilate the points for and against the idea, and perhaps be of considerable and in supplying information that would otherwise be costly in time or money. both

both. Where do you come in? Well, I am struggling to make a "go" of it, on this farm, in which every cent I possessed, is tied up. You come in (provid-ing you decide to) in bringing mysel and these others together: How? Well, I leave that to you, You publish three magazines that I know of, *Resensible are, Amazing Stories*, and Science and *Resensible are, Amazing Stories*, and Science and nvention.

Intention. When I lived in the city, I kept pretty good track of things through these magazines, and Popular Science, Popular Mechanics, Scientific American, Radio Il'orld, Radio Broadcast, Popular Radio, and other sources.

Radio, and other sources. I remember when you used to have an experi-tion of the source of the source of the source of the company catalog. I have bought radio parts from your Race houses, and know that you allow quite a bit of space in your magazines to the purning of you to aky you to devote a term lines in the readers column of Awatters Storats, to bringing me and the others togethere.

the others togetter: To sum it up then, my plea is for help in getting together an independent experimental station, your part to be the putting into the public view of my desire to get in touch with chaps who are of my calibrer, who wait the op-portunity to follow their own inclinations under utried, and live healthily and well while doing so.

iurled, and live healthily and well while doing so. I heave it to you how to head to this, you known merely a suggestion. I have marked the there or any part of them, entrely remits a special article, or just refuse to consider this letter at article, or just refuse to consider this letter at article, or just refuse to consider this letter at a final work and them, entrely remits a special article, or just refuse to consider this letter at a final work them are also any special to the special article, or just refuse to consider this letter at a final work there are any distortals. I have read, usual serious technical manner in which the ma-letter and any special these special they some loss seem to human.

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[This letter tells its own story. The writer could get in touch with some of our correspondents, who write us about the Science Club. Our Divension Columns will help him to find others interested as be is.-EDITOR.]



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Robert A. Wait,

[Refer to page 274 for reply .- EDITOR.]

# A QUESTION ABOUT THE EARTH'S ATMOS-PHERIC FRINGE-WAS THE BARON COR-RECT?-NOTES ON OTHER STORIES?

"REGT-MOTES ON OTHER STURIES' Editor, Austance Stomats: After reading some of the things in the dig in the source of the storage of the source ingit asy something, though I doubt if this will be printed. Bowe Minokakare Scientifs, devaniere, which is going to be about the most delightful acres that you have ever published. Personally its humor detracts from its interest at all. Please Keep 11 up.

In Barnier derivers from its interest at an. excer-ter the second second second second second second second explained in the second of the series the Barnie explained in the second of the series the Barnie mono. Its apparent second second

there." Isn't this contradictory? Isn't the fringe thicker near the equator, anyway? I may he wrong, but this is the only way I can see it. Am I right or

wrong? In the Fehruary issue I liked especially Four Dimensional Surgery. It was a very clever story. The Disintegrating Ray was very good, too, but it



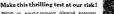
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James Whiting Saunders, 104 Cedar St., Rosemont, Alexandria, Va.

Alexandria, 'Sa. The effect of centrifugal force on the annexpler-of the earth would tend to made it thuser at the present of the earth would at the transmission of light than would at rarefield by centrifugal as referring to density rather than to pape or cupied. There is a lot of science in *Police* and probably and the is a transferring and the probably and the is a transferring and the *Paper* in the *Absys* is to have a secure, and Mr. Merrit promises it at an early date.—EDITOUS

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Stark Y. Robertson, 214 Rosewood Ave., San Antonio, Texas.

[Nearly a century interveness between the birth-day of this correspondent and that of our oldest reader, whose pertrait we give elsewhere. We are getting so many kind letters from our younger readers that we could open a special section for their communications.-EDITOR.]



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Melville II, Hatch., Assectant Professor, Department of Zoology, University of Washington, Seattle,

The other is one of the many which fell there of the other is one of the many which fell there mentary. We must not that we acree with you in the test of the the interesting the other is one work has to be guided by the desire. In places a new do for us to be to restricted the reactive the reality in stores, you certainly changed the real to be our to be to restricted. As regards the reality in stores, you certainly changed the real to be our to be to restricted. As regards the reality in stores, you certainly changed the other reality in the other stores of the other stores of the other is a store other other other real of the other stores of the other stores of the other ot

#### AMAZING STORIES IN INTERLAKEN

Editor, AMAZING STORIES:

## Ray Whittaker Kansas City, 2

[Switzerland is now vindicated. The combina-tion is interesting. The town of Interlaken with the three great mountains is the hackground he-tween Lake Thun and Lake Brienz, the Ameri-can holiday, 4th of July, and the June number of Amaztus Stoatzs in Europe certainly made an interesting combination.—IDITOR.]



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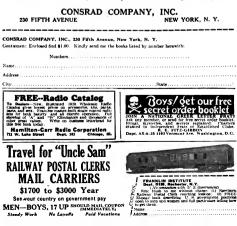
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(My commission expires March 30, 1929.) (SEAL)

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Having leen an orthunsknic reader of Anatrono-bover of the "Discussion", Two well had to itse and the them. The second second second second second Tak Aloss after my strongent congratulations of Tak Aloss after my strongent congratulations of Tak Aloss after an analysis of the them second the applications of the "Amating" story, it is plentime. (In the barr Mories that Tak Tak Aloss entry and the theory of the "Amating" story, it is plentime. (In the barr Mories that Tak Tak Aloss that which brought it to us.) These two stories Anatron Streams, and the second story of the theory of the theory of the story the story of the theory of the theory of the story of the story of the Matrix Streams, and the second story of the matrix of the story the story of the story of the story. This has been the story of the story of the story of the story the story of the story of the story. This has been the story of the story. This has been the story of the story of the story. This has been the story of the story. The has been the story of the story. The has been the story of the story. The has been the story of the story

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